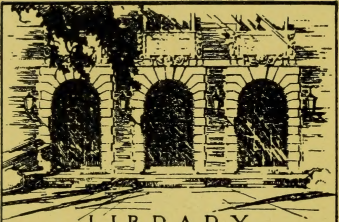

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OHIO NORTHERN UNIVERSITY

CATALOGUE

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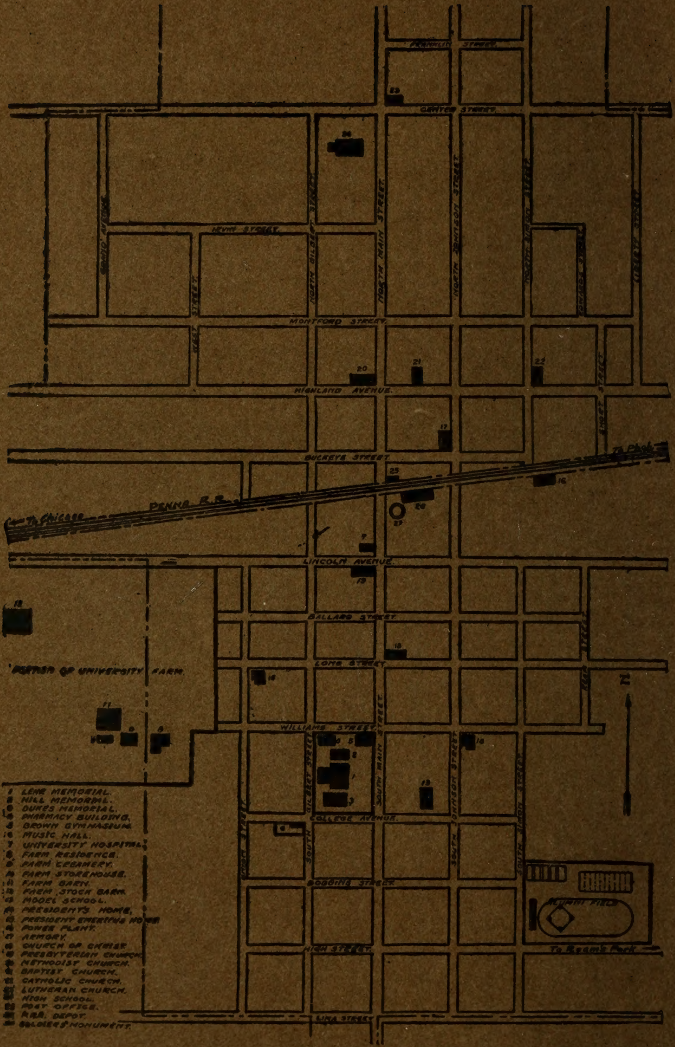
Franklin Street
Center Street
Irvin Street
Grand Avenue
West Street
North Gilbert Street
North Main Street
North Johnson Street
North Simon Street
Edwards Street
Montford Street
Highland Avenue
Buckeye Street
Penna. R.R.
To Chicago
To Phila.
Lincoln Avenue
Ballard Street
Long Street
Williams Street
Portion of University Farm
South Gilbert Street
South Main Street
South Johnson Street
South Simon Street
College Avenue
Bogging Street
High Street
Lima Street
Alumni Field
To Reams Park
N
1 Lehr Memorial.
2 Hill Memorial.
3 Dukes Memorial.
4 Pharmacy Building.
5 Brown Gymnasium.
6 Music Hall.
7 University Hospital.
8 Farm Residence.
9 Farm Creamery.
10 Farm Storehouse.
11 Farm Barn.
12 Farm Stock Barn.
13 Model School.
14 President's Home.
15 President Emeritus Home.
16 Power Plant.
17 Armory.
18 Church of Christ.
19 Presbyterian Church.
20 Methodist Church.
21 Baptist Church.
22 Catholic Church.
23 Lutheran Church.
24 High School.
25 Post Office.
26 R.R. Depot.
27 Soldiers' Monument.

Ada and the O. N. U.

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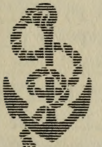
OHIO NORTHERN UNIVERSITY

Annual Catalog



January 1919

CALENDAR

1919

March 6, Thursday	Winter Quarter Ends
March 11, Tuesday	Spring Quarter Begins
May 23, Friday, (8:00 P. M.)	College of Music and Expression Recital
May 25, Sunday, (10:00 A. M.)	Baccalaureate Sermon
May 25, Sunday, (8:00 P. M.)	Christian Association Address
May 26, Monday, (9:00 A. M.)	Field Sports
May 26, Monday, (2:00 P. M.)	Athletic Sports
May 26, Monday, (8:00 P. M.)	President's Reception
May 27, Tuesday, (8:00 A. M.)	Girls' Fete Champetre
May 27, Tuesday, (9:30 A. M.)	Military Contest
May 27, Tuesday, (10:00 A. M.)	Annual Meeting of Trustees
May 27, Tuesday, (12:00 M.)	Alumni Banquet
(Annual Alumni Business Meeting immediately after Banquet)	
May 27, Tuesday, (2:00 to 5:00 P. M.)	Society Reunions
May 27, Tuesday, (5:30 P. M.)	Military Dress Parade
May 27, Tuesday, (8:00 P. M.)	Choral Society Concert
May 28, Wednesday, (8:30 A. M.)	Class Day Exercises
May 28, Wednesday, (1:30 P. M.)	Commencement Address
May 28, Wednesday, (8:00 P. M.)	Military Cadet's Reception
June 3, Tuesday	Summer Quarter Begins
June 3, Tuesday	First Special Summer Term Begins
July 11, Friday	First Special Summer Term Ends
July 14, Monday	Second Special Summer Term Begins
August 16, Saturday	Summer Quarter and Second Special Summer Term Ends.

SUMMER VACATION

September 8, Monday	Registration Day for 1919-20
September 9, Tuesday	Fall Quarter, 1919-20 Begins
September 30, Tuesday	College of Pharmacy Opens
November 26, Wednesday	Fall Quarter Ends
November 27-December 1	Thanksgiving Recess
December 2, Tuesday	Winter Quarter Begins
December 19-January 5	Christmas Vacation

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1918/19-1923/24

OHIO NORTHERN UNIVERSITY BULLETIN

New Series ADA, OHIO, JANUARY, 1919 Vol. XII., No. 6

Ohio Northern's Mission

The Ohio Northern University invites to her privileges all worthy young men and women, especially the self-dependent, who are ambitious for a liberal education. Her entire regime has in view the creation and maintenance of an atmosphere inspirational and congenial to plucky young people of both sexes whose lot in life has taught them the worth of hard labor and close economy. Jeans and broadcloth, homespun and silk have equal chance. The atmosphere is thoroughly democratic, a leading characteristic being the marked camaraderie of the students, a majority of whom are relying mainly on their own pluck and push. Thorough practical instruction in all the departments is provided at a minimum expense to the student.

Unique Features

The school year is forty-eight weeks in length, divided into four terms, designated, respectively, Fall, Winter, Spring and Summer Quarters. Instead of measuring time and work by Freshman, Sophomore, Junior and Senior years, credit is based on number of hours of class work done in each subject. On satisfactorily completing the required number of hours in the selected curriculum the appropriate degree is granted.

Students enter at the beginning of any quarter (except in the College of Pharmacy), find their places where certificates or examination credits rank them, pursue studies as many terms as their plans and means allow, and are duly credited on the records with the work done.

A three-year curriculum leading to a Bachelor's degree means 144 weeks of fifteen hours of recitations a week. This is the same time that is required elsewhere in four-year curriculums based on thirty-six weeks a year with a maximum of fifteen hours a week.

An Alumnus has figured that by completing a course in the Ohio Northern University, a student gains one year in time and one thousand dollars in money.

General Directions

Any one intending to enter the University and desiring to arrange matters beforehand will address, "The University, Ada, Ohio."

A satisfactory assignment to classes can best be made at the beginning of the fall quarter; however, students are admitted at the opening of any term.

The applicant for a degree, coming from another college, is required to spend at least thirty-six weeks in residence.

On arrival the newcomer is expected to report at once at the University office to receive needed information regarding lodging places and boarding houses, obtain a card of matriculation and arrange his work. After matriculation (and also at the beginning of each term), on the payment of the tuition fee, the student is given a registration card, which he carries to the Dean of his department. The Dean advises and directs what subjects are to be pursued during the quarter and indicates these, together with his approval, on the registration card. The card thus becomes a ticket of admission to the classes named thereon.

Registration Days

The first Monday of each quarter is Registration Day for new students, Tuesday for former students. All students, former and new, will report to their instructors on Tuesday.

Rooming Houses for Women

Young ladies coming from homes outside of Ada, are required to room in houses kept exclusively for women. The University will assist in securing rooming places for all young ladies, and carefully superintend all things pertaining to their welfare.

Requests for Credits

To insure prompt attention, requests for credits, certificates of graduation, class standing, recommendations, et cetera, should be accompanied by a stamped self-addressed envelope.

Each student is entitled to one copy of his credits; 50 cents is charged for each additional copy.

Seat of Ohio Northern

Ada, the seat of the Ohio Northern University, is an attractive little city in Northwestern Ohio, on the Pittsburg, Fort Wayne & Chicago Division of the Pennsylvania Railroad. Fifteen miles east of Lima and twenty-eight west of Upper Sandusky. Railroad connection is made at Lima with the Baltimore and Ohio and the Lake Erie & Western division of the New York Central Lines and the Erie Railroad. Connection is also made at Upper Sandusky with the Hocking Valley, at Forest, sixteen miles east, with the Big Four, and at Dunkirk, ten miles east, with the Ohio Central Lines.

Lying on the great watershed separating the waters tributary to the Ohio and the Mississippi from those flowing into the Great Lakes, Ada, with its population of three thousand, has an elevation above sea-level as high as any in the State, with healthful climate, sanitary conditions well guarded, and an abundant supply of excellent water from drilled wells. The town is unsurpassed in healthfulness and freedom from epidemics. Numberless forest trees line avenues and adorn premises, affording a delightful retreat during the warm summer months. The paved streets, hot and cold water plants, electric light and natural gas evidence the wide-awakeness of the citizens in the matter of public utilities and city improvements.

Organization

1. The College of Liberal Arts
2. The College of Education
3. The College of Engineering
4. The College of Law
5. The College of Pharmacy
6. The A. D. Juilliard College of Music
7. The College of Commerce

* 8. The College of Agriculture
9. The School of Expression
*10. The School of Fine Arts

11. The Preparatory School
12. The Department of Military Instruction

*Suspended for the present.

At their last annual meeting, the trustees, in honor of a liberal contributor to the funds of the University, named the department of music, The A. D. Juilliard College of Music.

N. B. For special information address:

THE SECRETARY OF THE UNIVERSITY, ADA, O.

BOARD OF TRUSTEES

Elected by the Conference

Initus			Exitus
1914	REV. CYRUS M. VAN PELT, D. D.	Delaware,	1919
1918	REV. WILLIAM E. PUTT, D.D.	Cincinnati,	1919
1918	MR. EDGAR J. BROOKHART	Celina,	1919
1910	MR. S. D. HAZLETT	Ada,	1920
1915	MR. H. E. MEYERS	Springfield,	1920
1918	MR. J. F. FREESE	Fostoria,	1920
1899	HON. S. A. HOSKINS, A. M.	Wapakoneta,	1921
1913	MR. JOSEPH H. EDWARDS	Leipsic,	1921
1911	MR. GEORGE E. WHITNEY	Marysville,	1921
1898	REV. D. H. BAILEY, D. D.	Defiance,	1922
1907	MR. S. A. BOWMAN	Celina,	1922
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1913	REV. JAMES R. COLLEY, D.D.	Greenfield,	1923
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1910	REV. J. WESLEY HILL, D. D., LL. D.	N. Y. City,	1920
1916	HON. FRANK B. WILLIS, LL.D.	Delaware,	1921
1917	HON. W. E. YOUNG	Akron,	1922
1918	DR. AUSTIN S. McKITRICK	Kenton,	1923

At Large, Elected by the Trustees

1911	HON. HENRY CLEWS, PH. D., LL. D.	N. Y. City
1917	DR. GEORGE FRANKLIN GETTY	Los Angeles, Calif.

Officers of the Board

S. A. BOWMAN, President.
S. D. HAZLETT, Secretary and Treasurer.

Standing Committees

Agriculture: S. D. Hazlett, D. H. Bailey, S. A. Bowman, C. E. Schenk, A. E. McKitrick, E. J. Brookhart, W. E. Putt.

Buildings and Grounds: S. A. Bowman, J. H. Clark, S. D. Hazlett, Wm. A. Wiant, A. S. Watkins, H. E. Myers, W. E. Young, J. F. Freese.

Cabinet and Library: D. H. Bailey, Joseph H. Edwards, S. D. Hazlett, James R. Colley, A. S. Watkins, C. E. Schenk, W. E. Young, A. S. McKitrick, J. F. Freese.

Degrees: S. A. Hoskins, James R. Colley, J. W. Hill, George E. Whitney, J. F. Freese, W. E. Putt.

Executive: S. A. Bowman, J. W. Hill, Wm. A. Wiant, C. M. VanPelt, A. E. Smith (ex-officio), E. J. Brookhart.

Finance: Joseph H. Edwards, S. A. Bowman, S. D. Hazlett, C. M. VanPelt, E. J. Brookhart.

Instruction: J. H. Clark, D. H. Bailey, S. A. Hoskins, A. E. Smith (ex-officio), George E. Whitney, H. E. Myers, A. E. McKitrick, W. E. Putt.

ALUMNI OFFICERS

President	R. H. Schoonover
Vice-President	W. H. Gifford
Secretary-Treasurer	Thos. J. Smull

Executive Committee:

E. E. Long, Mrs. Mary Hickernell, Mrs. Carrie Ames

Election Committee:

F. L. Berger, M. L. Snyder, Elizabeth Burkholder

FACULTY AND ADMINISTRATION OFFICERS

HENRY SOLOMON LEHR, PH.D. 404 Union
President Emeritus.
A.B., Mt. Union College, 1871; A.M., 1873; Ph.D., University of Wooster, 1897.

ALBERT EDWIN SMITH, D.D., PH.D., 502 South Johnson
President (on the William W. Edwards Foundation).
A.B., Ohio Wesleyan University, 1887; Ph.D., 1898; D.D. 1906.
President of Ohio Northern, 1905—

JOHN DAVISON, M.S., PED.D.
Vice President and Dean of College of Education. (1916—)
B.S., Ohio Normal University, 1889; M.S., 1892; M. Lit., 1902; Ped.D., 1912.

THOMAS JEFFERSON SMULL, ARCHT., C.E., 301 S. Main
Executive Secretary. (1918—)
C.E., Ohio Northern 1904; Archt., 1906.
Dean of College of Engineering 1905—1917.

MARGARET ELEANOR WHITWORTH, B.S. 219 E. Montford
Registrar. (1917—)
B.S., Geneva College, 1894.

HENRY WHITWORTH, A.B., 219 East Montford
Professor of Latin. (1900—). Dean of College of Liberal Arts. (1910—1919). Treasurer and Entrance Examiner. (1919—)
A.B., Ohio Wesleyan University,, 1877.

RICHARD HOLMES SCHOONOVER, A.M., B.D., 803 S. Main
Professor of Greek, Hebrew, and Church History. (1901—)
Principal of Preparatory School. (1913—)
A.B., Northwestern Ohio Normal School, 1884; A.M., 1887; A.B., Ohio Wesleyan, 1888; B.D., Drew Theological Seminary, 1899.

CHILDE HAROLD FREEMAN, B.S., 317 West Williams
Professor of Rhetoric and English Literature. (1901—)
B.S., Ohio Normal University, 1901.

LENIX CHAIG SLEESMAN, Ph.G., Ph.C., 702 S. Gilbert
Professor of Chemistry. (1906—)
Ph.G., Ohio Northern, 1905; Ph.C., 1906.

FRANK LEWIS BERGER, A.B., B.S., 121 E. Long
Professor of Physics. (1911—)
A.B., Ohio Northern, 1910; B.S., University of Chicago, 1914.

WALTER DAVID NISWANDER, A.M., 421 S. Main
Professor of History. (1917—)
B.Ph., B.Ped., Ohio Northern, 1914; M.A., Ohio State University, 1917.

Professor of Political Science.

WILLIAM HENRY TRAINUM, A.M., B.D.,
Dean of College of Liberal Arts. (1919—)
Professor of Psychology and Social Philosophy. (1914—17, 1919—)
A.B. (Class), Dexter College, 1905; A.M., North Western University, 1907; B.D., Garrett Biblical Institute, 1907; A.B., (in Ed.), Kirksville State Teachers College, 1912.

WILLIAM CLAUDIUS GROTH, A.M.,
Professor of Modern Languages. (1905—1917, 1919—)
Student in Kiel University, 1882—1884; A.M., Ohio Northern, 1918.

Professor of Biology and Geology.

WILLIAM HENRY FREUND 817 S. Main
Instructor in French. (1918)

CARRIE ADEL WILSON, B.E., 417 S. Johnson
Instructor in Paidology, Principles of Teaching and Methods. (1914—)
B.E., Ohio Northern, 1908.

ANNA M. VAUGHN
Critic Teacher in Primary Grades.
(Summer Terms, 1915—)

CHARLES ADDISON MILLER, C.E., 419 E. Lincoln
Professor of Municipal Engineering. (1911—17); Civil (1918—)
Dean of College of Engineering. (1918—)
C.E., Ohio State University, 1907.

JOHN ALFRED NEEDY, B.S. in M.E., 412 N. Gilbert
Professor of Mechanical Engineering. (1916—)
B.S., in Mechanical Engineering, University of Kentucky, 1911.

FLOYD FRED TURNER, B.S., E.E., 308 E. Lincoln
Professor of Electrical Engineering. (1918—)
B.S., Ohio Northern, 1909; E.E., Ohio Northern, 1912.

WIGHTMAN S. BECKWITH, A.M., 718 S. Main
Professor of Mathematics.
A.B., Emory College, 1909; A.M., Harvard, 1917.

EMMETT E. LONG, B.C.S. 621 S. Johnson
Commercial Arithmetic and Penmanship. (1907—)
Dean of Commercial College. (1918—)
Student at Zanerian Art College, 1909. B.C.S., Ohio Northern, 1911.

PAULINE IRENE CHRISTIE, GRAD. STEN., 417 S. Johnson
Stenography, Typewriting, Business English, (1917—)
Grad. Sten., Marion Business College, 1913.

WILLIAM WESLEY RUNSER, LL.B., 120 W. Buckeye
Dean of College of Law. (1918—)
Instructor in Law, 1899—1904; Professor of Law. (1914—)
A.B., Ohio Normal University, 1897; LL.B., 1898.

ELLAHUE ANSILE HARPER, A.M., LL.B.,
Instructor in Law. (1918—)
A.B., Ohio Normal University, 1890; B.L., Ohio Wesleyan, 1893; A.B., Ohio Wesleyan, 1898, LL.B., Ohio State, 1900.

RUDOLPH HENRY RAABE, Ph.G., Ph.C., 316 S. Gilbert
Professor of Pharmacy. (1911—)
Dean of College of Pharmacy. (1917—)
Ph.G., Ohio Northern, 1910; Ph.C., 1911.

FREDERIC THOMAS KILLEEN 209 S. Johnson
Professor of Voice and Dean of College Music. (1916—)
Graduate of University of Michigan, School of Music, 1905; Assistant in Voice, 1905—1907; Pupil Sig. De Macchi and Harriet Ware, New York City 1907—1909.

WILLIAM P. LAMALE, Mus. B., 309 E. Lincoln
Professor of Organ and Piano. (1916—)
Mus. B., Oberlin College Conservatory, 1910. Student with Tobias Matthay and Matilda Verne, London, 1914—1915.

MARY CLYTICE PHILLIPS 301 E. Williams
Children's Piano Department. (1917—)
Graduate in Piano, Ohio Northern, 1916.

MRS. MAE DEMING McCOPPIN 431 North Gilbert
Dean of School of Expression.

ESTHER PATRICK, (Ohio State)
Instructor in Domestic Science.
(Summer Quarters, 1916—)

ELLEN KATHRYN ROTHROCK, A.B., 409 N. Main
Instructor in Algebra and Geometry. (1916—)
A.B., Ohio Northern, 1915.

Instructor in Preparatory History and English.

JAMES RALPH SPELLMAN 411 S. Johnson
Assistant in Law.

FRANK WHITON PARSONS,
Assistant in Higher Mathematics. (1918—)

FIDEL CUDORA DAGANI
Assistant in Spanish. (1918—)

EDWIN HOWARD LOTZ
Assistant in Engineering.

GEORGE R. MEIERS
Assistant in Algebra.

A. RAYMOND STEESE
Assistant in Mathematics.

RALPH HARPER OSMUN
Assistant in Pharmacy Laboratory.

THOMAS C. ERWIN
Assistant in Botany Laboratory.

MABEL ANNA LOTZ
Assistant in Bookkeeping.

MARY ELIZA THOMAS 422 S. Gilbert
Librarian.
B.S., Ohio Normal University, 1894.

FLO L. CRONBAUGH 310 East Williams
Stenographer.

HENRY ERICKSON
President Y.M.C.A.

ADELAIDE GRIMES
President Y.W.C.A.

JOHN DEXTER TEMPLETON 215 West Highland
Chief Custodian of Buildings.

HIRAM CORNELIUS COOLIDGE 622 S. Johnson
Assistant Custodian of Buildings.

FACULTY ORGANIZATION

DR. A. E. SMITH, Chairman.
R. H. SCHOONOVER, Secretary
MARGARET E. WHITWORTH, Registrar.

Committees

Administration: Dr. Smith, Dr. Davison, Secretary Smull, Professor Raabe.

Athletics: Secretary Smull, Professors Sleesman, Killeen, Long, Miller, Niswander.

Catalog and Editing: Professor Whitworth, Secretary Smull, Dr. Smith, Mrs. Whitworth.

Entrance: Professors Whitworth, Miller, Raabe, Schoonover.

Finance: Dr. Smith, Secretary Smull, Treasurer Whitworth, Mrs. Whitworth.

Girls' Welfare: Dr. Davison, Miss Wilson, Mrs. Whitworth, Miss Rothrock, Miss Christie, Mrs. McCoppin.

Graduation and Degrees: The Deans and Principal of Preparatory School.

Library: Professors Freeman, Schoonover, Beckwith, Turner, Dr. Davison.

Literary Societies: Professors Raabe, Niswander, Berger, Lamale.

Loan Fund: Professor Whitworth, Secretary Smull, Dr. Smith.

Military: Commandant Ball, Professors Long, Sleesman, Schoonover, Secretary Smull.

Physical Education: Miss Wilson, Miss Christie, Professors Long, Killeen, Needy.

Summer School: Dr. Davison, Professors Freeman, Long, Miller, Secretary Smull.

Historical Sketch

On August 14, 1871, in a three-story brick building erected on the campus where the Lehr Memorial now stands, the Northwestern Ohio Normal School, with Henry Soloman Lehr at its head, was formally opened "for the instruction and training of teachers in the science of education, the art of teaching and the best methods of governing schools."

In 1885 the name was changed to Ohio Normal University, the policy and management remaining the same.

The school was under private control from the outset until September, 1898, when the owners sold to the Central Ohio (now the West Ohio) Conference of the Methodist Episcopal Church the real estate, personal property and equipment belonging to the school. Under the new administration, as fast as existing contracts permitted, the departments, theretofore semi-independent, were reorganized under one management, and the respective heads, designated deans, were placed on salary instead of commission. At the same time instruction in the main school was made departmental, with the head teacher in each department director thereof.

In 1904 the institution was rechartered under the name Ohio Northern University.

In the spring of 1910 the Trustees recognized the College of Liberal Arts as distinct from the Normal School, and appointed a dean in charge. The courses leading to the scholastic degrees were strengthened, the standard number of hours required for the bachelor degrees adopted, and the conferring of the Master's degree discontinued until such time as the resources of the institution should permit organization for postgraduate instruction.

Location and Buildings

The **Campus** lies in a resident portion of the village, a few blocks south of the Pennsylvania Station.

In the midst of the campus stand four memorial buildings: On the south side, the **Dukes Memorial** with commodious classrooms, offices and laboratories, devoted to science, mathematics and engineering; in the center, the **Lehr Memorial**, in which are located the executive offices, the Y. M. and

Y. W. C. A. rooms, the library and reading rooms, the apartments of the College of Law and College of Commerce, and a magnificent auditorium for chapel and other public meetings; to the north, the **Hill Memorial**, devoted to language, history, philosophy and education; in this building are the mechanical and electrical laboratories and the attractive halls of the Franklin and Philomathean literary societies.

In the northeast angle of the campus is located **Brown Memorial**, fitted and equipped for gymnasium and armory and used as an assembly hall for social functions. Recently a wing has been added, with extensive equipment and special appliances for instruction in Domestic Science.

Pharmacy Hall, in the northwest angle, especially arranged and equipped for the College of Pharmacy, contains also the spacious assembly room of the Adelphian Literary Society.

Just outside, southwest of the quadrangle, is **Music Hall** with its assembly room, offices and private practice rooms, cozy and convenient.

While all the buildings contain attractive, well-arranged rooms, lighted and heated from the University's central steam heating and electrical lighting plant, the Lehr and Hill buildings especially, are thoroughly modern in their appointments and sanitary equipment, and are fire-proof.

Laboratories and Museum

The Biological Laboratories, located on the second floor of Dukes Memorial, are well lighted and equipped with water, gas and electricity. The department makes use of a lantern to illustrate lectures and other phases of the work. In the laboratories is found an ample supply of reagents, stains and glassware, also oil-immersion lens, dissecting microscopes, camera lucida, micrometer eye-pieces, a large rotary microtome, hand microtome, paraffin bath, microscopic slides, models, charts, and preserved materials for study—enough material and apparatus to do modern work in the courses offered.

The Chemical and Physical Laboratories are large, well-lighted, and equipped with natural gas and the latest conveniences. In the general chemical laboratory are one hundred and twelve lockers with first class outfits, including all apparatus necessary for thorough individual work. The physical laboratory has ample accommodation for more than one hundred and fifty students, with abundant apparatus for individual experimentation both in preparatory and college Sophomore physics.

The Pharmaceutical and Dispensing Laboratories, occupying the entire basement of Pharmacy Hall, are supplied with modern apparatus and desk arrangement; the equipment affording every facility for thorough individual work in practical chemistry and the various pharmaceutical preparations. The equipment includes a complete outfit for gold and silver assaying and other metallurgical work. In the "specimen room" is an interesting exhibit of all the crude drugs of materia medica, a complete line of U. S. P. chemicals, a fine case of salts and alkaloids, and another of biological specimens, such as serums, antitoxins, and the like. On the first floor a well-lighted microscopical laboratory is supplied with an outfit of compound microscopes, accessories and appliances for special work in pharmacal micro-technique.

The Museum contains numerous specimens and collections for illustrating geology and the biological sciences. In the geological alcove are found all the common minerals and ores, many rare ones, meteorites, plant and animal fossils representing the chief orders of geological importance, the shells and skeletons of many living molluscs and vertebrates. The zoological alcove exhibits about 200 birds, representing one or both sexes of nearly all of those common to this region, all animals, native to Ohio, many kinds of snakes, and several hundred specimens, of the orders of invertebrates preserved in jars. For illustration in anatomy of human skeleton and structural models of various organs are at hand.

Library

In the disastrous fire of 1913 the University lost its library; not a sheer calamity, perhaps, for in its stead there is being established by purchase and gift a new and better one, in apartments built especially for the purpose, on the second floor of Lehr Memorial. Here in spacious and well-lighted quarters have been provided a reading room accommodating one hundred and fifty students, a stack room with capacity for 60,000 volumes, and a large corridor filled with departmental reference volumes. To the south, on the same floor, is located the Law Department with a legal reference library of some 2000 volumes. The use of the library is free to all students.

Since books are costly and anything like an adequate equipment means a large investment of money, all the friends of the institution are earnestly invited to assist by making donations of up-to-date books and by generously contributing funds. The departments of history, literature, sciology, economics and philosophy especially suffered from the fire. Any contributions of libraries and single volumes practically serviceable in these and the other fields of learning will be gratefully received and acknowledged. Those desiring to make donations and not knowing just what would meet the need, kindly communicate with the heads of departments concerning the matter.

Athletic Field

Within four squares of the Campus, adjacent to the student rooming section of the town, lie the Athletic Grounds, owned and controlled by the University, on whose area of eight acres the Baseball Diamond, the Football Gridiron, the Running Tracks, the Lawn Tennis Courts, and the Military Parade and Contest Field are located.

University Farm

The University possesses a tract of land within a block and a half of the campus, containing ninety acres of rich, productive soil under cultivation, devoted to the practical demonstration of farm methods and problems. There the Agricultural college buildings are to be erected.

Rooms, Boarding and Home Comforts

Board in private families costs from $3.00 to $3.75 a week, and furnished rooms, two in a room, 75 cents to $1.25 each a week.

The town is lighted with electricity; coal is the chief fuel, and many houses are heated by hot-air furnaces, gas, or with hot water from the city heating plant.

The comfort and convenience of the student is looked after by a kind people; when sick he is well cared for.

Aid to Students

Loan Fund. The Board of Education of the Methodist Episcopal Church lends money to members of that church taking a regular course in school, who have been in attendance long enough to merit a recommendation from the Faculty. No interest is charged if the debt is paid within five years from the time of leaving school, but a payment of $5.00 each year must be made on the principal, after the applicant quits school. the only security required is a recommendation from a quarterly conference. Loans are made at the beginning of each quarter. Application should be made two weeks before the opening of the quarter and no applicant can be received later than the close of the first week of the quarter. The maximum amount allowed to each applicant is $50 a year, to be taken out as follows: First quarter, $25; second quarter, $15; third quarter, $10.

Scholarships. The University has received through generous donors four scholarships of $1000.00 each, the income of which, amounting to $50 to $60 per year, is to be devoted to the assistance of worthy students. The recipients of these incomes may be chosen by the donors and when not so chosen, shall be selected by the President and the Faculty of the University, and must have been in attendance at least one term before receiving aid. The scholarships are as follows:

1. The J. T. Cunningham Scholarship, by M. E. Cunningham, Mrs. L. A. Cunningham, and George T. McCoppin, Ada, Ohio.

2. The George Franklin Getty Scholarship, by George F. Getty, Los Angeles, Calif.

3. The James E. and Caroline Purvis Scholarship, by James E. Purvis, Bremen, Ohio.

4. The Parlette Scholarship, by Ralph Parlette of Chicago, Ill.

Prizes. Through the President of the University, prizes of $15 and $10 are awarded to winners in an annual oratorical contest among the three Literary Societies.

Miss Pearl A. M. Stahl offers $15 and $10 prizes annually to the two successful members of the Philomathean Society.

Dr. George W. Crile, of Cleveland, an alumnus, has permanently provided for $15 and $10 prizes for the winners in the Adelphian Literary Society.

Mr. George F. Getty, '79, offers $15 and $10 prizes annually to the members of the Philomathean Literary Society winning honors in debate.

Hon. S. A. Hoskins, Columbus, O., offers $15 and $10 prizes for two years to the members of the Franklin Literary Society winning honors in debate.

Work. Many students in the University earn a part of their expenses by working as waiters, janitors, and at other occupations in the town and vicinity, and at the same time carry full work in studies.

Student Societies and Activities

Literary Societies. Three flourishing Literary Societies, chartered, and meeting in well furnished assembly rooms, are maintained by the students exclusively—the Franklin, Philomathean and Adelphian.

Debating Clubs. Under the supervision of the societies, clubs are organized each term for practice in debate, extempore speaking, and parliamentary law.

The Ohio Northern Debating Association, a student organization, arranges for and engages in forensic contests between Ohio Northern and other institutions. Membership is open to any student interested in the object of the association, irrespective of department. Ten per cent of the athletic fee is appropriated to the maintenance of forensic work. Debaters are selected and assisted in their training by a faculty committee. As a mark of distinction the University letter is awarded to those participating in intercollegiate contests.

Christian Associations. The Young Men's and Young Women's Christian Associations have enthusiastic organizations in the University and wield a most wholesome influence on the lives and habits of the students.

The Young Women's Christian Association has a membership including about ninety per cent. of the young women in attendance at the school.

A devotional meeting open to all the University women is held weekly. At the beginning of each quarter Bible and Mission Study classes are organized under efficient teachers.

Both Y. M. C. A. and Y. W. C. A. Bible Study classes are religious meetings are open respectively to all men and women enrolled in the University.

Band and Orchestra. The Military Department has an organized band of thirty-five pieces, which meets for practice one hour each day.

Students playing any band or orchestral instrument are urged to bring their instrument with them and become members of this organization. They may substitute the band practice for military drill, and receive a credit of five quarter hours for three quarters of service, including contest week.

Clubs. The Cosmopolitan Club is a spirited organization of the foreign students attending the University. The object is to promote good feeling among the representatives of the different nationalities, to familiarize its members with the customs, resources and view points of the several countries, to afford practice in the use of English and to establish a social centre for mutual help and encouragement.

A number of live departmental associations are maintained.

Publications. The **Annual** is a sumptuous serio-comic volume published by each out-going class, and is always awaited with eagerness and treasured as a souvenir of college days.

Athletics. College teams in baseball, football, basketball, and track athletics are maintained. Interdepartmental, interclass and intersociety sports are also encouraged.

The department of Athletics is managed by a Board of Directors, comprised of the Faculty Committee on Athletics (appointed by the President of the University), the Athletic Director, and a student member for each college sport; the student members being elected by the Athletic Association, a student organization, to which any student of the University may belong.

A fee of $1.00 per quarter is charged each student for the support of Athletics and Intercollegiate Debating Club. No fee is charged for the Summer Quarter. Upon the payment of this fee, the student receives a ticket of admission to all intercollegiate Athletic and Debating events free of charge.

Ohio Northern became a member of "Ohio Conference", better known as the "Big Six" of Ohio, on October 13, 1916.

Military Drill. Every able-bodied male student intending to complete any of the University curriculums, is expected to drill and recite in this department three quarters and "go through contest." For further information see "Military Department."

Discipline

The opportunities and advantages of the University are offered to all sincerely desiring to develop the best in themselves, and aiming at a broad culture and a thorough preparation for useful service.

Self-government is made the key-note in discipline. All are treated as ladies and gentlemen until they prove themselves otherwise. Incorrigible and morally corrupt persons are summarily dismissed from the institution. Every possible help is afforded in the formation of right habits, but those who cannot govern themselves are not wanted. This institution does not pose as a "reform school."

Regular attendance upon class work, prompt response to duty, and thoroughness in all assigned tasks are insisted on, not more for their bearing on scholarship than for their effect upon conduct and life.

Moral and Religious Culture

Much attention is given to awakening and fostering an aspiration to attain to the highest type of Christian manhood and womanhood.

While the University is the property of the West Ohio Conference of the Methodist Episcopal Church and is denominational in its ownership and control, it is in no sense sectarian. Students of all religious denominations are received on equal terms and treated with equal consideration. They are urged to identify themselves with the work and participate regularly in the services of the church of their choice. The six churches of the city cordially welcome students to their religious and social meetings.

Convocations are held each school day, except Monday, from 8:00 to 8:30 a. m. The aim of which is not only to recognize the duty and privilege of daily devotions, but to foster a university spirit by bringing together into one assembly the students of the several Colleges to listen to practical addresses and talks from members of the faculty and others, and to be entertained by those connected with the Colleges of Music and Expression.

EXPENSES

Matriculation

No matriculation or entrance fee is required to enter the University. Some schools advertise free tuition, but it will be found that entrance fees with them amount to more than tuition fees here, a fact not to be overlooked by those selecting a school thorough, yet less expensive.

Tuition Rates

In the College of Liberal Arts, College of Education, College of Commerce, College of Agriculture and Preparatory School, tuition rates are as follows:

For one quarter, (12 weeks), in advance	$16.00
For two quarters, in advance	31.00
For three quarters, in advance	46.00
For four quarters, in advance	60.00

In the College of Engineering and College of Law:

For one quarter (12 weeks), in advance	$19.00

In the College of Pharmacy:

Tuition for 32 weeks, including drugs, chemicals, laboratory, (excepting microscopical) and athletic fees, in advance	$99.00

In the College of Music, School of Expression, and School of Fine Arts:

Tuition rates in detail given in the descriptions of the respective departments.

All students paying the regular tuition fee are admitted to the general classes in Rudimental Music without extra charge.

Tuition must be paid by Friday of the first week, otherwise one dollar additional will be charged. A special fee of $1.00 is charged for late enrollment.

A charge of one dollar is made for transferring a student from one course to another, unless the change is made at the opening of a term.

Those coming in late in the quarter and desiring, where possible, to make up the work they have missed, and earn a credit, will pay full term tuition.

Laboratory Fees

Fees to cover cost of chemicals and other materials used in the laboratories are charged each term as follows:

Preparatory and College. Inorganic Chemistry I. and II., per quarter, $4.00; all others, $5.00. Preparatory Physics, $2.50; College Physics, $3.00. Biology, Botany and Zoology, each $2.00. Physiology, $ .60. Preparatory Botany, $ .75.

Engineering. Plane Surveying, Field Engineering, Railroad Engineering, Mechanical Engineering, each $2.50; Electrical, $3.00. Cement Laboratory, $1.00. Machine Shop, $1.00. Hydraulic Laboratory, $1.00.

Special Fees—Bookkeeping and Stenography

A fee of $3.00 is charged on entering the Office Practice and Banking Classes for use of ledgers, commercial paper and other supplies.

A fee of $3.00 is charged for use of typewriter twelve weeks, one hour a day; two hours per day, twelve weeks, $5.00. All who pay the above fees are entitled to free use of the Burroughs Adding Machine. Others are charged $1.00.

A deposit of $2.00 is required for use of college currency which will be refunded when currency is returned at close of term's work, less deductions for loss.

The applicant for currency must present his receipts for the above named fees.

Special Examination Fee

A fee of $2.50 is charged for a special examination in any course not given in that quarter, and a student is limited to one special examination per quarter. No special examination is permitted unless approved by the student's Dean, and requests for such examinations will be refused if the credit for the subject raises the total number of hours above the maximum prescribed for the quarter.

Graduation Fees

Neatly executed diplomas are awarded to those who complete any regular course of study. The diploma fee is $5.00. those preferring real parchment will be charged one dollar extra.

Candidates for any degree are required to pay full tuition in graduation quarter.

Refunding

In case of withdrawal from college, or change of course, within two days of registration, $1.00 will be charged. After two days, refunds will be made on the following basis: Before the end of two weeks, 80%; before the end of four weeks, 60%; before the end of six weeks, 40%; after the sixth week no refund of fees will be made. Receipts are not transferable.

COLLEGE OF LIBERAL ARTS

FACULTY

Albert Edwin Smith, D.D., Ph.D.,
President

William Henry Trainum, A.M., B.D.,
Dean
Psychology, Social Sciences

Henry Whitworth, A.B.,
Latin

Richard Holmes Schoonover, A.M., B.D.,
Greek, Hebrew, Biblical History

William Claudius Groth, A.M.,
French, German, Spanish

Childe Harold Freeman, B.S.,
Rhetoric, English Literature

Frank Lewis Berger, A.B.,
Physics

Lenix Craig Sleesman, Ph.G., Ph.C.,
Chemistry

Biology, Geology

Political Science

Walter David Niswander, A.M.,
History

Wightman S. Beckwith, A.M.,
Higher Mathematics

Ellen Kathryn Rothrock, A.B.,
Mathematics

ADMISSION

General Remarks

Applicants for admission to courses in the College of Liberal Arts, leading to a degree, must have, in addition to the preacademic or grammar school studies, four years of high school preparation, or a full equivalent, including all subjects specifically required for entrance upon the several courses offered. Applicants must complete the required preparatory work, if their certificates from other schools show that this work has not been finished.

Those not desiring to earn a degree may enter any department and pursue the studies they choose, if, on consultation, the head of the department is satisfied that they have sufficient preparation to pursue the work successfully. Such applicants are classified as "Special Students." Should they later desire to graduate, they may do so, on condition of passing all the requirements including the preparatory work.

Credits in the entrance subjects are accepted from "first-class" High Schools, Academies, or Preparatory Schools. No certificates for private work are accepted, and the Entrance Committee, while disposed to weigh credits in all work done in completing a "well-planned high school course," reserves the right to reject any or all grades from a second or third class High School.

The applicants must present credentials duly made out and signed by the proper official of the school from which he comes, and showing in detail (1) the text book used in each subject, (2) the amount completed, (3) the number of weeks spent thereon, (4) the length in minutes of the recitation period, and (5) the mark or grade secured. Blanks for this purpose may be had by addressing "The University" and enclosing a self-addressed, stamped envelope.

The applicant must see that the certificate is correct before presenting it, for credits not on the certificate will not be considered.

Entrance Requirements

A unit is the credit given for pursuing a subject for five periods a week thruout a school year of thirty-six weeks, each period not less than 40 minutes. Its time equivalent is 120 clock-hours. At least 15 such units are required for admission to collegiate rank. Units from High Schools will be accepted as follows:

English	3 to 4 units	Physiology	½ or 1 unit
Greek	1 or 2 units	Biology	½ or 1 unit
Latin	2 to 4 units	Agriculture	½ or 1 unit
German	1 or 2 units	Chemistry	1 unit
French	1 or 2 units	Botany	½ or 1 unit
Spanish	1 or 2 units	Geology	½ or 1 unit
History	1 to 4 units	Astronomy	½ or 1 unit
Civics	½ unit	*Bookkeeping	½ or 1 unit
Economics	½ unit	*Commercial Law	½ unit
Adv. Arithmetic	½ unit	*Stenography	½ or 1 unit
Algebra	1 or 1½ units	*Shop-Work	1 unit
Geometry	1 or 1½ units	*Freehand Drawing	½ or 1 unit
Plane Trigonometry	½ unit	*Com. Geography	½ or 1 unit
Physics	1 unit	*Domestic Science	1 unit
Physiography	½ or 1 unit	*Music	½ or 1 unit

*Not more than a total of four units out of the last eight subjects will be accepted.

Students taking a part or all of the preparatory work in Ohio Northern will follow the schedule set forth under "The Preparatory School."

Admission to Advanced Standing

An applicant from another college, seeking for advanced standing, must present (1) evidence of honorable dismissal, (2) a full record of the applicant's preparation for college, (3) a transcript of his college record, subject by subject, with the grade obtained in each and the hours credited. He should submit a catalogue of his college, bearing his name and of the issue current at the time of his admission to that college. Credit for advanced standing must be secured within the first and second quarters of the student's residence.

The Committee on Admission reserves the right of rejecting subjects foreign to the college curriculum.

COLLEGIATE COURSES

The regular courses of instruction offered in the College of Liberal Arts are classified in the following departments:

1. **Biblical Literature and Christian Religion**
2. **Biological and Geological Science**
3. **Chemistry**
4. **Economics**
5. **English**
6. **Greek and Hebrew**
7. **History**
8. **Latin**
9. **Mathematics**
10. **Modern Languages**
11. **Physics**
12. **Philosophy and Psychology**
13. **Political Science**
14. **Social Sciences**

Schedules

From the courses offered in the departments named above, two three-year schedules are arranged, consisting of prescribed and elective courses and leading to the degrees of A.B. and B.S.

The credit value of a course is expressed in hours, an hour of credit being given for the satisfactory completion of work requiring one class exercise a week for one quarter. It is equivalent to two-thirds of a semester-hour.

As a condition of graduation, a student must complete 180 hours ((exclusive of military drill), this being the equivalent of fifteen class exercises a week for twelve quarters.

Minimum, thirteen hours a week; maximum, twenty hours.

Credits for the following are required of all candidates for degrees:

English	18	**Psychology**	9
Foreign Language	15	**Political Science**	9
History	9	**Sociology**	9
Mathematics	5	**English Bible**	10
Chemistry	15	**Biology 9 or Physics**	12

For additional courses in these departments, necessary for graduation, see the respective schedules following.

1. Leading to the Degree of Bachelor of Arts

FIRST YEAR	SECOND YEAR	THIRD YEAR
College Rhetoric I.---3 Western Europe I.---3 Chemistry I. ------5 Latin ------------5	Survey of English Poetry ---------3 Psychology I. -----3 Government and Politics I. ------3 Biology I. or Physics IV.--3 or 4 Elective------3 or 2	Sociology I. -------3 American History I. ------3 Life of Christ------5 Municipal Gov't I. or History of Philosophy I. ---3 Elective ----------1
College Rhetoric II.--3 Western Europe II.--3 Chemistry II. -----5 Greek, German, French or Spanish-----5 or 3	Survey of English Prose ----------3 Psychology II. ----3 Government and Politics II. -----3 Biology II. or Physics V.---3 or 4 Elective------3 or 2	Sociology II. ------3 American History II. -----3 Municipal Gov't. II. or History of Philosophy II. ---3 Apostolic Age -----5 Elective ----------1
West. Europe III.---3 Chemistry III. ----5 Greek, German, French or Spanish-----5 or 3 Elective------1 or 2	Psychology III. ----3 Government and Politics III. -----3 Biology III. or Physics VI.--3 or 4 Poetics -----------3 Elective------3 or 2	Sociology III. -----3 American History III. ----3 Municipal Gov't. III. ------3 Lit'ry Criticism ---3 Economics I. ------5
Latin ------------5 Plane Trigonometry--5 Greek, German, French or Spanish-----3 or 5 Elective------2 or 0	Latin ------------5 Greek, German, French or Spanish-----3 or 5 Elective------7 or 5	Economics II. -----5 Ethics -----------5 Elective ----------3

2. Leading to the Degree of Bachelor of Science

FIRST YEAR	SECOND YEAR	THIRD YEAR
College Rhetoric I.--3 Western Europe I.--3 Chemistry I. ------5 German, French or Spanish-----3 or 5	Survey of English Poetry ---------3 Psychology I. -----3 Government and Politics I. ------3 Biology I. or Physics IV.-3 or 4 Elective ------3 or 2	Sociology I. -------3 American History I. -------3 Life or Christ------5 Municipal Gov't I. or History of Philosophy I. ----3 Elective ----------1
College Rhetoric II.-3 Western Europe II.-3 Chemistry II. -----5 German, French or Spanish-----3 or 5 Elective	Survey of English Prose -----------3 Psychology II. ----3 Government and Politics II. ------3 Biology II. or Physics V.--3 or 4 Elective ------3 or 2	Sociology II. ------3 American History II. ------3 Municipal Gov't. II. or History of Philisophy II. ---3 Apostolic Age -----5 Elective ----------1
West. Europe III.--3 Chemistry III. -----5 Greek, German, French or Spanish-----5 or 3 Elective------1 or 2	Psychology III. ----3 Government and Politics III. -----3 Biology III. or Physics VI.-3 or 4 Economics I. ------5	Sociology III. -----3 American History III. ----3 Municipal Gov't. III. ------3 Lit'ry. Criticism ---3 Elective-------3 or 4
Latin ------------5 Plane Trigonometry-5 Greek, German, French or Spanish-----3 or 5 Elective------2 or 0	Economics II. -----5 Elective ---------10	Ethics ------------5 Elective ---------10

Examinations. Mid-term examinations are held at the discretion of each professor. Final examinations are held on Wednesday and Thursday of the last week of each quarter, except in the Spring Quarter, when they fall on Thursday and Friday of the eleventh week.

Grade Marks. Ex. excellent; G. good; Av. average; P. passing; Cn. conditioned; F. failure.

Cn. means that the grade has been withheld because the work of the course has not been completed.

F. means that the student receives no credit whatever for the course, and it must be taken agein.

Graduation

Diplomas are awarded at the Commencement exercises, which are held but once a year, at the close of the Spring Quarter. Those who have finished their work at the close of any previous quarter are expected, as far as possible, to be present at the commencement exercises. Those whose work, beyond question, will be finished by the close of the Summer Quarter are entitled to all the privileges of the graduating class, but the diplomas are not issued until the requirements are fully met. In order to have a seat and part in the class organization, credentials must be obtained from the Committee on Graduation and Degrees.

DESCRIPTION OF COURSES

Department of Biblical Literature and Christian Religion

PROFESSORS TRAINUM AND SCHOONOVER

English Bible 1. Old Testament History I. **5 Hrs.**

English Bible 2. Old Testament History II. **5 Hrs.**

A survey study of the history of the Hebrew people as presented in the Old Testament from the period of the conquest and establishment in Canaan to the Maccabean struggle and the close of the Old Testament history. The course embraces a preliminary sketch of the patriarchal period, with a more detailed study of the conquest, the period of the Judges, the united and the divided kingdoms, the exile, the revival of Judah and the beginning of Judaism. Two quarters.

English Bible 3. Life of Christ. **5 Hrs.**

Constructive studies in the Life of Jesus. The aim of the course is to enable students to construct their own "Life of Christ" in a true historical perspective. To this end the entire gospel history is studied in a connected way, especial attention being given to the most important political and social features of New Testament times and to the intepretation of critical passages.

English Bible 4. Christianity in the Apostolic Age. **5 Hrs.**

This is a constructive study of Christianity from its inception to the close of the Apostolic Era. As far as possible the student is led to construct his own story of the development of primitive Christianity. The study follows in the main the outline of the book of Acts, but the Epistles are also used in so far as they reflect conditions of life and thought during the period.

(For other courses in English Bible see "Social Philosophy.")

Christian Religion 1. Evidences of Christianity. **5 Hrs.**

A study of the grounds of Christian belief and an inquiry into the great essentials of the Christian faith, both in its biblical and philosophical aspects. Spring quarter.

Christian Religion 2. Church History. **5 Hrs.**

A survey of the origin, growth, spread and influence of Christianity on the nations of the world. Fall quarter.

Department of Biology and Geology

PROFESSOR------------------

Biology 1. General Biology I. **3 Hrs.**

Two hours a week lecture and discussion, three hours laboratory. 9:30—11:30. Fall quarter. M., W., F.

Course I. deals with some of the essential problems found in plant life. Such topics are treated: Cell structure, tissue differentiation, methods of reproduction, food manufacture, metabolism, decay, evolution.

Biology 2. General Biology II. **3 Hrs.**

Two hours a week lecture and discussion, three hours laboratory. 9:30—11:30. M., W., F. Winter quarter. Course II. is given to the study of biological facts as evidenced in the animal kingdom.

Biology 3. General Biology III. **3 Hrs.**

Two hours a week lecture and discussion, three hours laboratory. 9:30—11:30. M., W., F. Spring quarter. Course III. is a study of general physiological processes based upon the human body. Hygiene, sanitation and prevention of disease are given attention.

Biology 4. General Zoology I. **3 Hrs.**

Two hours a week leceure and discussion, three hours laboratory. 9:30—11:30. T., Th. Fall quarter.

Biology 5. General Zoology II. **3 Hrs.**

Two hours a week lecture and discussion, three hours laboratory. 9:30—11:30. T., Th. Winter quarter.

Biology 6. General Zoology III. **3 Hrs.**

Two hours a week lecture and discussion, three hours laboratory. 9:30—11:30. T., Th. Spring quarter.

These courses in General Zoology constitute a year's work. Representative types form the basis for the study of structure, relationships, developments and distribution. Economic importance is given consideration. Prerequisites: Courses 1, 2 and 3 in General Biology.

Biology 7. Botany I. —Thallophytes. **4 Hrs.**

1:00—3:00. M., W., F. Fall quarter.

Biology 8. Botany II.—Bryophytes. **4 Hrs.**

1:00—3:00. M., W., F. Winter quarter.

Biology 9. Botany III.—Pteridophytes. **4 Hrs.**

1:00—3:00. M., W., F. Spring quarter.

These courses in General Botany constitute a year's work. Beginning with the lowest forms of plant life and proceeding to the highest, a careful study is made of the structure, development and evolution of plants as illustrated by selected types. Prerequisites: Courses 1, 2 and 3 in General Biology. Two hours a week lecture and discussion; four hours laboratory.

Biology 10. Ecology of Plants **4 Hrs.**

A systematic study of the local flora with special attention to the study of plants in relation to their environment. Illustrated lectures, laboratory and field work. Prerequisites:

Botany I., II., III., or equivalent, and Geology I. Summer quarter.

Biology 11. Dendrology. **3 Hrs.**

7:00—11:30. Th. or Sat. Spring quarter.

A laboratory and field course designed to acquaint the student with the trees and shrubs represented in the local flora, in both the winter and summer conditions. Lectures upon structure, classification, uses, and distribution. Schaffner's Field Manual of Trees is used as a key.

Biology 12. Histological Technique and Biological Methods. **3 Hrs.**

Lecture and class work two hours, laboratory six to eight hours. Summer quarter. Hours to be arranged. A practical course for students who intend to do advanced work and for teachers of biology. Methods of collecting, killing, preserving and preparing material for demonstration and laboratory purposes are considered. Problems which are likely to be met in the biological laboratory of secondary schools are discussed. Those desiring this course will notify the instructor several weeks in advance. Course limited to ten students. Laboratory fee to be fixed. Lecture and recitation two hours a week, laboratory six to eight hours. Prerequisites: Courses 4, 5, 6, 7, 8 and 9, or equivalent. Summer quarter, 1919.

Geology 1. Dynamical and Structural. **3 Hrs.**

Lectures, class exercises, assigned reading, laboratory work. 8:30. M., W., F. Fall quarter.

A study of the earth's crust, dealing with rock form and structure, and the formation of mineral deposits and mountains, together with a study of the forces past and present which have brought the earth to its present condition. Lecture, recitations and assigned readings, with laboratory work. Prerequisites: Chemistry and Physics.

Geology 2. Historical. **3 Hrs.**

8:30. M., W., F. Winter quarter.

A lecture and recitation course supplemented by rock collections, fossils and lantern slides. The sequence and distribution of rock strata and the succession of past geologic life, including a discussion of the theories of organic evolution and the evidences of evolution among plants and animals. Prerequisites: Geology I. and Biology I., II. desirable.

Department of Chemistry

PROFESSOR SLEESMAN AND ASSISTANT

Chemistry 1. General Inorganic Chemistry I. (Elementary) **5 Hrs.**

Three hours a week lecture and class exercise, four hours laboratory. 8:30. Each quarter. This course is intended for students who have not had preparatory chemistry. Prerequisites: **Preparatory Physics.**

Chemistry 2. General Inorganic Chemistry II. **5 Hrs.**

Three hours a week lecture and discussion, four hours laboratory. 9:30. Every quarter.

Chemistry 3. General Inorganic Chemistry III. **5 Hrs.**

Three hours a week lecture and discussion, four hours laboratory. 10:30. Each quarter.

Courses I. and II. offer a thorough study of the non-metallic and metallic elements and their several combinations. Prerequisites: General Chemistry I. and Preparatory Algebra I.

Chemistry 4. Qualitative Analysis I. **5 Hrs.**

Prerequisites: General Chemistry I., II., III.

Chemistry 5. Qualitative Analysis II. **5 Hrs.**

Prerequisites: Chemistry 4.

Chemistry 6. General Organic Chemistry I. **5 Hrs.**

A thorough study of the structure and constituents of the carbon compounds; the hydrocarbons and carbohydrates with their many addition and substitution products.

Chemistry 7. General Organic Chemistry II. **5 Hrs.**

Continuation of Chemistry 6.

Chemistry 8. Quantitative Analysis. **5 Hrs.**

This work consists of volumetric and gravimetric analysis; the determination of acidity and alkalinity; the analysis of organic and inorganic salts, sugar, syrups, candies, baking powders, milk, urine, etc. A large amount of work is done which the Food and Drug Act demands.

Chemistry 9. Special Chemistry. **5 Hrs.**

This includes the chemistry of the pharmaceutical drugs and their preparation; the analysis of ores, clays, cements, coal and coke, soil, limestone and many other compounds.

Department of Economics

PROFESSOR ______________

Economics 1. Principles of Economics I. **5 Hrs.**

1:00. Fall quarter.

General introduction to the study of Political Economy. Courses 1 and 2 together are designed to give the student an acquaintance with the working principles of modern economics.

Economics 2. Principles of Economics II. **5 Hrs.**

1:00. Winter quarter.

Prerequisites: Economics I.

Department of English

PROFESSOR FREEMAN

English 1. College Rhetoric I. **3 Hrs.**

Description and narration. Daily themes. M., W., F. Fall and Spring quarters. Text: Scott and Denny's Paragraph Writing.

English 2. College Rhetoric II. **3 Hrs.**

Exposition and Argumentation. Daily themes. M., W., F. Winter and Summer quarters. Prerequisite: English I.

English 3. Argumentation. **3 Hrs.**

A detailed study of the principles of argumentation; practice in brief making and in debating. M., W., F. Winter and Spring quarters. Text: Foster. Prerequisite: College Rhetoric II.

English 4. The Short Story. **3 Hrs.**

A study of the technique of the short story; reports on required readings; some practice in story writing. M., W., F. Fall quarter. Text: Essenwein's Writing the Short Story. Prerequisite: College Rhetoric II.

English 5. Expository Writing. **2 Hrs.**

T., Th. Fall and Winter quarters. Prerequisites: College Rhetoric I. and II.

English 6. Survey of English Poetry. **3 Hrs.**

M., W., F. Fall quarter.

English 7. Survey of English Prose. **3 Hrs.**

M., W., F. Winter quarter.

English 8. Poetics. I. **2 Hrs.**

T., Th. Winter quarter. Prerequisites: College Rhetoric and Survey of English Poetry and Prose.

English 9. Shakespeare I. **3 Hrs.**

Histories. M., W., F. Prerequisites: College Rhetoric and Survey of English Poetry and Prose.

English 10. Shakespeare II. **3 Hrs.**

Tragedies. M., W., F. Prerequisites: Same as for Shakespeare I.

English 11. Shakespeare III. **3 Hrs.**

Comedies. M., W., F. Prerequisites: Same as for Shakespeare I.

English 12. Milton. **3 Hrs.**

The poetry of Milton is read and studied; also the Essay on Education and The Areopagitica. M., W., F. Summer quarter. Prerequisites: College Rhetoric and Survey of English Prose and Poetry.

English 13. Nineteenth Century Poetry I. **3 Hrs.**

A survey of Wordsworth, Scott, Byron, Arnold, Morris, Swinburne and Rosetta. M., W., F. Prerequisites: College Rhetoric and Survey of English Prose and Poetry.

English 14. Nineteenth Century Poetry II. **3 Hrs.**

A study of Tennyson. M., W., F. Prerequisites: Same as in English 13.

English 15. Nineteenth Century Poetry III. **3 Hrs.**

A study of Browning. M., W., F. Prerequisites: Same as in English 13.

English 16. Nineteenth Century Essayists I. **3 Hrs.**

M., W., F. Fall quarter. Prerequisites: Survey of English Poetry and Prose.

English 17. Nineteenth Century Essayists II. **3 Hrs.**

M., W., F. Winter quarter. Prerequisites: Same as in English 16.

English 18. Prose Fiction. **3 Hrs.**

The development of the novel and its place in literature; critical study. M., W., F. Summer quarter.

English 19. Literary Criticism. **3 Hrs.**

A study of the principles of literary criticism as applied to the various forms of literary expression.

English 20. American Poetry. **3 Hrs.**

M., W. F. Spring quarter.

English 21. American Prose. **3 Hrs.**

M., W., F. Summer quarter.

Department of Greek and Hebrew

PROFESSOR SCHOONOVER

I. Preparatory Courses

Greek 1.	**White's First Greek Book I.**	**5 Hrs.**
Greek 2.	**White's First Greek Book II.**	**5 Hrs.**
Greek 3.	**White's First Greek Book III.**	**5 Hrs.**
Greek 4.	**Xenophon's Anabasis I.**	**5 Hrs.**
Greek 5.	**Xenophon's Anabasis II.**	**5 Hrs.**

II. Advanced Courses

Greek 6.	**Epic Poetry—Homer's Iliad I.**	**5 Hrs.**
Greek 7.	**Epic Poetry—Homer's Iliad II.**	**5 Hrs.**
Greek 8.	**Lyric Poetry—Selections**	**5 Hrs.**
Greek 9.	**Drama—Selected Plays.**	**5 Hrs.**
Greek 10.	**History—Selected Authors.**	**5 Hrs.**
Greek 11.	**Philosophy—Selected Authors.**	**5 Hrs.**
Greek 12.	**Oratory—Selected Orations.**	**5 Hrs.**
Greek 13.	**Sacred Greek—One of the Gospels.**	**5 Hrs.**

Each work mentioned in course 4-13 inclusive, is pursued one quarter. A literary study of the period is a part of each course.

Hebrew 1—3. Elementary Courses. 5 Hrs.
Hebrew 4. Judges. 5 Hrs.
Hebrew 5. Psalms. 5 Hrs.
Hebrew 6. Prophetic Writings. 5 Hrs.

Department of History

PROFESSOR NISWANDER

History 1. Western Europe I. (Fall) 3 Hrs.
History 2. Western Europe II. (Winter) 3 Hrs.
History 3. Western Europe III. (Spring) 3 Hrs.

A comprehensive survey of the history from the barbarian invasions to the present time. Both as to content and methods of study, the work is introductory. Part II. will also be offered in Summer quarter of 1919.

History 4. English History I. (Fall) 3 Hrs.
History 5. English History II. (Winter) 3 Hrs.
History 6. English History III. (Spring) 3 Hrs.

An introductory study of English from the earliest times to the present; the object being to gain a general knowledge of the subject, or for those specializing in American History or English Literature. It is also recommended for secondary teachers. Part II. will also be offered in the Summer of 1919.

History 7. Renaissance and Reformation I. (Fall) 2 Hrs.
History 8. Renaissance and Reformation II. (Winter) 2 Hrs.
History 9. Renaissance and Reformation III. (Spring) 2 Hrs.

This course deals with the development of civilization in Italy, Germany, and England in the period from Dante to Luther; the causes, nature and results of the Protestant revolt and the Catholic reformation. The object is to see as clearly as possible the relation of these movements to the present-day civilization. Special study is made of the dominant personalities of the period and the political, economic and social, as well as the strictly religious causes of the reformation. Prerequisite: History 1, 2, and 3, or equivalent. (To be given 1918—19).

History 10. French Revolution I. (Fall) 2 Hrs.
History 11. French Revolution II. (Winter) 2 Hrs.
History 12. French Revolution III. (Spring) 2 Hrs.

As detailed a study as time will permit of the Old Regime; the causes, progress and permanent results of the Revolution; the rise of the Napoleonic empire and institutions; the public and private career of the great conqueror and especially the growth of democratic institutions in the nineteenth century. Prerequisites: History 1, 2, 3, or equivalent. (To be given 1919—20).

History 13. American History I. (Fall) 3 **Hrs.**

History 14. American History II. (Winter) 3 **Hrs.**

History 15. American History III. (Spring) 3 **Hrs.**

A general study of the history of the United States from the discovery of America to the present time. Political, constitutional and economic phases will receive chief attention. Part II will also be offered in the Summer of 1919.

History 16. Recent American History I. (Fall) 3 **Hrs.**

History 17. Recent American History II. (Winter) 3 **Hrs.**

History 18. Recent American History III. (Spring) 3 **Hrs.**

In this course, a detailed study of the history of the United States since 1870 is made. The work is intended for those students who expect to teach history, or have taken at least thirty hours in the subject. It is also recommended to advanced students in the department as a supplement to the outline course in American History.

History 19. The Teaching of History. 2 **Hrs.**

Lectures and reading upon methods of teaching history in the secondary school, examination of text-books, followed by practice work in the preparation of lessons for teaching, and the conduct of recitations. This course should be taken by all who desire to be recommended for teaching positions in this subject. This course will be offered in the Spring and Summer quarters.

Department of Latin

PROFESSOR WHITWORTH

It is the aim of this department to utilize as fully as possible the efficiency of Latin as an instrument of education and a means of culture. The student's effort is directed toward an appreciation of Roman writings from a literary viewpoint and as exhibiting the genius of the age in which they were written.

Latin 5. Cicero-De Senectute et De Amicitia 5 **Hrs.**
Fall quarter.

Latin 6. Horace—Odes and Epodes. 5 **Hrs.**
Winter quarter.

Latin 7. Livy—Selections from Books XXI. and XXII. 5 Hrs.

Spring quarter.

Courses 5, 6 and 7 are open to students who have presented four units of Latin for College entrance.

Latin 8. Virgil—Eclogues and Bucolics 3 Hrs.

Latin 9. Tacitus—Agricola and Germania. 3 Hrs.

Latin 10. Plautus—Captivi or Trinummus. 3 Hrs.

Latin 11. Private Life of the Romans. 2 Hrs.

Latin 12. Latin Literature of the Republic I. 3 Hrs.

Latin 13. Latin Literature of the Republic II. 3 Hrs.

Latin 14. Latin Literature of the Republic III. 3 Hrs.

Text-books for courses 12, 13 and 14: McKail's **Latin** Literatue and the Oxford **Book of Verse.**

Latin 15. Teacher's Training Course. 2 Hrs.

Lectures and discussions on methods of teaching paradigms, translation, vocabulary and composition. Portions of the authors commonly studied in secondary schools are read, in class, to illustrate the discussions. Open only to seniors whose major work is in the Latin department. Summer quarter.

Latin 16. Advanced Composition. 2 Hrs.

Department of Mathematics

PROFESSORS BECKWITH, ROTHROCK AND ASSISTANT

Mathematics 1. College Algebra I. 4 Hrs.

Special stress is laid on factoring, radical quantities, fractional exponents, the solution of simple equations of one, two or more unknown quantities and the quadratic of one unknown.

Mathematics 2. College Algebra II. 4 Hrs.

The large part of this course is a study of the quadratic equation, followed by the surds, the imaginaries, the binomial theorem and arithmetical, geometrical and harmonic series.

Mathematics 3. College Algebra III. 4 Hrs.

Theory of logarithms, permutations, combinations, choice and chance, determinants, theory of equations.

Mathematics 4. Trignometry I. (Plane) 5 Hrs.

Theory of the trigonometric functions and their application to the solution of right and oblique triangles; the use of tables; the solution of a large number of practical problems.

Mathematics 5. Trigonometry II. 2½ Hrs.

This course gives attention to the solution of trigometric identities, the solution of trigonometric equations, and the theory and solutions of spherical triangles.

Mathematics 6. Analytic Geometry I. **4 Hrs.**

The properties of the straight line referred to Cartesian and polar coordinates, loci, equations, and tangents to the circle, the parabola, the ellipse and the hyperbola. Prerequisite: Trigonometry I. Fall and Spring quarters.

Mathematics 7. Analytical Geometry II. **4 Hrs.**

A study of the conic sections, poles and polars, higher plane curves, solid geometry embracing the plane and quadric surfaces. Winter and Spring quarters.

Mathematics 8. Calculus I. (Differential) **4 Hrs.**

Functions: their differentiation, expansion, maxima and minima, together with indeterminate forms. Prerequisite: Analytic Geometry I. Winter quarter.

Mathematics 9. Calculus II. **4 Hrs.**

A study of the points of inflexion, curvature, evolutes and involutes, change of the independent variable, functions of two or more variables, and the simpler forms of integration. Winter quarter.

Mathematics 10. Descriptive Astronomy. **4 Hrs.**

A study of the fundamental facts of astronomy and of the methods of modern astronomical research. The classes are required to spend from one to two hours a week in laboratory work, consisting of tracing on globes the path of the sun, of problems with the celestial globe, and star plotting on prepared maps. Prerequisites: Preparatory Physics and Trigonometry II. Fall quarter.

Department of Modern Languages

Preparatory Courses in German

PROFESSOR GROTH

1. **German I., II., III.** Pronunciation, elements of grammar, easy reading, practice in speaking and writing German. Reading: Maerchen and Ersachlungen, Andersen's Fairy Tales, Der Zerbrochene Krug, Germelshausen, Hocher als die Kirche, Traumereien, Immensee. Credit, five hours each.

2. **German IV., V.** Reading, conversation and composition. Schiller's Wilhelm Tell, Marie Stuart and other masterpieces of representative German authors. Credit, five hours each.

Advanced Courses in German

3. **German VI., VII., VIII.** Study of selected classics, prose composition, conversation practice, lectures on German

literature, history of German literature. Credit, three hours each.

Preparatory Courses in French

4. **French I., II., III.** Pronunciation, grammar, writing, oral exercises, graded readings. La Mare au Diabel (Sand), L'Abbe Constantin and other similar grades of writings. Credit, five hours each.

5. **French IV., V.** Reading and Translation of French masterpieces, studies in syntax and conversation. Credit, five hours each.

Advanced Courses in French

6. **French VI., VII., VIII.** Study of French classics, conversation. Credit, three hours each.

Preparatory Courses in Spanish.

7. **Spanish I., II., III.** Elementary Spanish, easy reading. Cuentos Modernos, Flores de Espana. Credit, five hours each.

8. **Spanish IV., V.** Grammar, composition, conversation, reading of best Spanish authors. Credit, five hours each.

Advanced Courses in Spanish

9. **Spanish VI., VII., VIII.** Study of Spanish classics, conversation and writing. Credit, three hours each.

Italian

10. **Elementary Italian.** For students in the College of Music. Pronunciation, translation and reading.

Department of Philosophy

PROFESSOR TRAINUM

Philosophy 1. Logic. **5 Hrs.**

Elements from the text-book. Practical training in detecting the more common fallacies and in illustrating the condition of proof and laws of evidence.

Philosophy 2. History of Philosophy I. **3 Hrs.**

The course covers the history of European philosophy from the Ionian Greeks to the Renaissance.

Philosophy 3. History of Philosophy II. **3 Hrs.**

This is a continuation of Philosophy 2, with special emphasis placed on the philosophical movements of the nineteenth century, including the theory of evolution.

Philosophy 4. Comparative Religions I. 3 Hrs.

Philosophy 5. Comparative Religions II. 3 Hrs.

This course is an attempt to trace out the solution or solutions of the problem regarding the origin of things as offered by religion, beginning with the most primitive form and ending with the highest form.

Text, discussions and outside readings. Fall and Winter quarters.

Philosophy 6. Ethics. 5 Hrs.

The theory of morals. The course is a study (1) of the nature of goodness, duty and freedom; (2) of the ethics of the family, society, and the state. Summer quarter.

Department of Physics

PROFESSOR BERGER AND ASSISTANT

Physics 4. **Engineering Physics I. 4 Hrs.**

Physics 5. **Engineering Physics II. 4 Hrs.**

Physics 6. **Engineering Physics III. 4 Hrs.**

These courses constitute a year's work in Engineering Physics. Prerequisites: Preparatory Physics and Trigonometry I.; Calculus is recommended. Physics IV. is a prerequisite for Physics V. and VI. Class, three hours; laboratory, two hours.

Physics 8. **Teaching of Physics. 5 Hrs.**

A course in the "Teaching of Physics." Prerequisites: Preparatory Physics.

Physics 9. **Premedical Physics I. 4 Hrs.**

Physics 10. **Premedical Physics II. 4 Hrs.**

Physics 11. **Premedical Physics III. 4 Hrs.**

The courses are for all except Engineering students. They meet the premedical requirements. Prerequisites: Preparatory Physics; Physics IX. is prerequisite for X. and XI. Class, three hours, laboratory two hours.

Department of Political Science

PROFESSOR ______________

Political Science 1. **Comparative Government and Politics I. 3 Hrs.**

Political Science 2. **Comparative Government and Politics II. 3 Hrs.**

Political Science 3. **Comparative Government and Politics III. 3 Hrs.**

As detailed a study as time will permit, of the American governmental system, national, state and local, then a general and comparative study of the governments of Europe, especially France, Italy, Switzerland and Germany, and finally a more detailed study of English government; introductory and prerequisite to the more advanced work in Political Science. M., W., F., 10:30. Fall, Winter and Spring quarters.

Political Science 4. **Municipal Government I.** 3 **Hrs.**

Political Science 5. **Municipal Government II.** 3 **Hrs.**

Political Science 6. **Municipal Government III.** 3 **Hrs.**

A comparative and historical study of the activities, functions and problems of European and American cities. Emphasis is placed on the relation of the city to quasi-public corporations, and the government of American cities of the present day. M., W., F., 9:30. Fall, Winter and Spring quarters.

Political Science 7. **Political Theories and Parties I.** 3 **Hrs.**

Political Science 8. **Political Theories and Parties II.** 3 **Hrs.**

Political Science 9. **Political Theories and Parties III.** 3 **Hrs.**

A study of the growth, organization and methods of operation of American political parties and of the development and history of political theories from Grecian times to the present day. Stress is laid on the parties and theories of America, especially of today. M., W., F., 8:30. Fall, Winter and Spring quarters.

Political Science 10. **International Law I.** 2 **Hrs.**

Political Science 11. **International Law II.** 2 **Hrs.**

Political Science 12. **International Law III.** 2 **Hrs.**

A general introductory study of the legal relations obtaining between states in time of peace and of war and particularly the contribution which the United States has made to International Law. A sufficient knowledge should be gained to help the student in making an independent analysis of international problems. T., Th., 9:30. Fall, Winter and Spring **quarters.**

Political Science 13. **Current Politices.**

This course is designed to awaken in the student a rational interest in both domestic and world political problems and movements of today. It is also recommended to students as a supplement to Political Science 1. Open to all students. T., Th., 10:30.

Political Science 14. **History and Government of Ohio I.** 2 **Hrs.**

Political Science 15. **History and Government of Ohio II.** 2 **Hrs.**

Political Science 16. **History and Government of Ohio III.** 2 **Hrs.**

Early settlements, industrial and political development, the constitution and government. Open to all students who have completed Political Science 1 or equivalent. T., Th., 8:30.

Department of Psychology

PROFESSOR TRAINUM

Psychology 1. **General Psychology I.** **3 Hrs.**

Psychology 2. **General Psychology II.** **3 Hrs.**

These courses take up the general study of mental processes. They aim to train the student to observe the processes of his own experience and those of others, and to appreciate critically whatever he may read along psychological lines. It is introductory to all work in philosophy and pedagogy and is an important part of equipment for historical and literary interpretation. Fall and Winter quarters.

Psychology 3. **Pyschology of Religion.** **3 Hrs.**

This is a study of a special subject based on a thorough elementary course in psychology. Three main topics will be treated: (1) The beginnings of religion in the race. Special topic, primitive customs, ritual, taboo, sacrifice, prayer, myth, magic; (2) the beginning of religion in the individual, involving a study in adolescence, the types of religious experience, such as conversion and gradual growth; revivalism in the light of the psychology of suggestion compared with the educational process; (3) analysis of mature religious consciousness with reference to the nature and place of religious emotion and the character and function of religious ideas and concepts. Spring, 1920.

Psychology 4. **Social Psychology.** **3 Hrs.**

Mind is treated from the standpoint of its organizing, communicating function in social groups. The basis of the theory of social consciousness is derived from recent studies in gesture, language and instinct. Questions proper to this science are: (1) the genesis and devolopment of consciousness in the family, gang, school, club, voluntary association and nation; (2) the social character of instinct, feeling, preception and thinking; (3) the interpretation of the crowd, fashion and custom; (4) political parties, the newspaper and the public will; (5) democracy and leadership. This course alternates with Psychology 3. Spring, 1921.

Psychology 5. **Teacher's Psychology.** **5 Hrs.**

A survey course in general psychology for beginners and a review for public school teachers. Summer quarter.

Department of Social Philosophy

PROFESSOR TRAINUM

Social Philosophy 1. **Sociology I.** **3 Hrs.**

Social Philosophy 2. **Sociology II.** **3 Hrs.**

A study of the phenomena of social life; the basis of society in nature; the social person; social institutions; social order and process. The course is designed to give an introduction to theoretical and practical sociology, and to systematize the reading, observation and thinking of the student. Courses 1-2 are prerequisite to other courses in sociology, and are required for B. A. and B. S. degrees. Fall and Winter quarters.

Social Philosophy 3. Sociology III. (Criminology) 3 Hrs.

A study in social pathology in which the principles laid down in Sociology I. and II. are applied and an effort made to find the cause and remedy for crime. Spring quarter.

Social Philosophy 4. Social Message of Jesus. 5 Hrs.

This course is an effort to get a social and ethical perspective of the life and teachings of Jesus in its present day application. The work consists of free discussions in the class-room and written themes based on the four gospels and recent works on the life of Christ. Credit will be given either for English Bible or an elective in Sociology. Summer, 1920.

Social Philosophy 5. Social Message of the Prophets 5 Hrs.

The prophets will be studied as Social and Political Reformers with a strong religious background. An attempt will be made to answer the question, did they bring to the people of their times, ideals and principles to be used in the solution of their own problems, which are equally useful to us in the solution of our social and political problems. Credit will be given either for bible or advanced Sociology. Summer quarter, 1921.

Partial List of Electives

In addition to the courses described above, candidates for degrees are allowed to present credits from the College of Commerce, Law, Music, the School of Expression or the College of Education as follows:

Commercial Science. Commercial Law, 5 hours; Stenography (with typewriting), 5 hours; Salesmanship, 5 hours.

Law. Elementary Law, 10 hours; Contracts and Constitutional Law, each 5 hours.

Music. Harmony, 8 hours; History of Music, 4; Theory of Music, 2; Counterpoint, 4.

Oratory. Oratory, 10 hours.

Education. History of Education, 9 hours; Principles of Education, 9 hours.

COLLEGE OF EDUCATION

FACULTY

ALBERT EDWIN SMITH, D.D., Ph.D.,
President

JOHN DAVISON, M.S., M.Lit., Ped.D.,
Dean
History and Principles of Education and School Administration

WILLIAM H. TRAINUM, A.M.,
Psychology and Sociology

CARRIE ADEL WILSON, A.B.,
Methods and Principles of Teaching

RICHARD HOLMES SCHOONOVER, A.M.,
Methods in English, Critic Teacher

English and History

ELLA KATHRYN ROTHROCK, A.B.,
Algebra and Geometry

EMMETT E. LONG, B.C.S.,
Penmanship and Public School Drawing

RUDOLPH H. RAABE, Ph.G., Ph.C.,
Methods and Principles of Teaching

FREDERIC THOMAS KILLEN,
Public School Music

Normal Course in Art

Model School Teachers
(Summer Session)

Principal, Grammar Grade Methods

ANNA MARIE VAUGHN,
Primary Methods

ESTHER PATRICK,
Domestic Science

Professional Training

The School Laws of Ohio prescribe that "Applicants for a one-year or a three-year elementary certificate who have taught in the public schools for one school year previous to the time of such application, unless said applicant is a graduate of a college or university of approved educational standing, shall possess an amount of professional training consisting of classroom instruction in a recognized institution for the training of teachers, not less than the following: After January 1, 1916, such applicant shall possess not less than six weeks of such instruction;" an additional six weeks requirement is added each year until "after January 1, 1921, not less than one year of such class-room instruction" is required. The law also requires special training in observation and practice teaching, and the sections prescribing professional and academic requirements of applicants for high school and special certificates have not been repealed.

In keeping with the requirements of advanced legislation, the Ohio Northern University has more than met the requirements of the Superintendent of Public Instruction and is on the "Accredited List" of recognized schools and colleges. Those who complete the Elementary and Secondary courses described in the following pages will be granted "provisional certificates" without further examination, and, after twenty-four months of successful teaching experience, the certificates may be made made permanent by the State Board of Examiners.

Requirements for Admission

"Graduation from a first grade high school or its equivalent." Those not having had this opportunity may complete such work here in the preparatory department. For a full description of the preparatory courses, see "The Preparatory School" elsewhere in this catalogue. Completion of either schedule is accepted as the equivalent of a first grade high school training.

COURSES OF STUDY

"Four Year" Schedule for the Training of High School Teachers

Degree: Bachelor of Science in Education

FIRST YEAR	SECOND YEAR	THIRD YEAR
English -----------3	English -----------3	General Methods ---3
Psychology --------3	Sociology ---------3	Hist. of Edu.-------3
Biology -----------3	Prin. of Sec. Edu.--3	Sch. Adm'n. -------2
*Elective ---------6	*Elective ---------6	Teach. or Elect'e.---3
		*Elective------4 or 5
English -----------3	English -----------3	Special Methods ---3
Psychology --------3	Sociology ---------3	Hist. Education ---3
Biology -----------3	Prin. of Sec. Edu.--3	Sch. Adm'n. ------2
Elective ----------6	Elective ----------6	Teach. or Elect'e.---3
		Elective-------4 or 5
English -----------3	English -----------3	Edu. Hygiene -----5
Psychology --------3	Sociology ---------3	Hist. Education ----3
Biology -----------3	Prin. of Sec. Edu.--3	Sch. Adm'n. -------2
Elective ----------6	Elective ----------6	Teach. or Elect'e.--3
		Elective ----------2
Drawing ----------3	Psychology --------5	Ethics ------------5
Psychology --------3	School Law -------2	Bible -------------5
Elective ----------9	Observation -------3	Elective ----------5
	Elective ----------5	

*Electives must be selected with reference to the subject or subjects which the student is preparing to teach. At least six quarters should be devoted to the major subject.

Two Year Schedule for the Training of Elementary School Teachers

Diploma: Graduate in Pedagogy

FIRST YEAR		SECOND YEAR	
Educational Psychology	2	Principles of Teaching	3
Geography and Methods	5	General Methods	2
Public School Music	5	History of Education	3
Drawing	3	School Organization	2
		Observation or Practice Teach.	3
		Elective	2
Educational Psychology	2	Principles of Teaching	3
Arithmetic and Methods	5	General Methods	2
Grammar and Methods	5	History of Education	3
Reading and Methods	5	School Organization	2
		Observation or Practice Teach.	3
		Elective	2
Educational Psychology	2	General Methods	2
History and Methods	5	History of Education	3
Agriculture and Methods	5	School Organization	2
Health and Sanitation	5	Observation or Practice Teach.	3
		Elective	5

DESCRIPTION OF COURSES

Educational Psychology

DR. DAVISON, PROFESSOR WILSON

Educational Psychology 1. Human Behavior. **2 Hrs.**
T., Th. Fall quarter.

Educational Psychology 2. Psychology of Common Branches. **2 Hrs.**
T., Th. Winter quarter.

Educational Psychology 3. Paidology. **2 Hrs.**
T., Th. Spring quarter.

These are elementary courses, open to all freshmen, and are designed to lay a foundation for all succeeding educational work. While the work of the three quarters is sequential and should be taken as outlined, it is offered in three units, any one of which may be taken separately if the student shall read the preceeding texts and references.

Educational Psychology 4. The Learning Process. **2 Hrs.**
T., Th. Fall quarter.

Educational Psychology 5. Psychology of H. School Subjects I. **2 Hrs.**
T., Th. Winter quarter.

Educational Psychology 6. Psychology of H. School Subjects II. **2 Hrs.**
T., Th. Spring quarter.

Courses 4, 5 and 6 are open to students who have a working knowledge of psychological principles.

School Organization

DR. DAVISON

School Organization 1. Class Room Management **2 Hrs.**
T., Th. Fall quarter.

School Organization 2. School Law and School Discipline. **2 Hrs.**
T., Th. Winter quarter.

School Organization 3. School Law and Course of Study. **2 Hrs.**
T., Th. Spring quarter.

Although the work is planned for three consecutive quarters, any one may be selected by special students prepared to take the work.

School Administration

DR. DAVISON

School Administration 1. School Systems and Agencies. **2 Hrs.**
T., Th. Fall quarter.

Study of existing school systems and the relations of the various agencies at work; comparative school legislation, with attention to Ohio; school management, financial problems, buildings and furnishings.

School Administration 2. Secondary Education. **2 Hrs.**
T., Th. Winter quarter.

Special study of courses of study, selection of teachers, reports, grading and records.

School Administration 3. Vocational Education. **2 Hrs.**
T., Th. Spring quarter.

History of Education

DR. DAVISON

History of Education 1. Before the Middle Ages. **3 Hrs.**
M., W., F. Fall quarter.

History of Education 2. During the Middle Ages **3 Hrs.**
M., W., F. Winter quarter.

History of Education 3. Modern Times. **3 Hrs.**
M., W., F. Spring quarter.

History of Education 1, 2 and 3 are required of seniors in both courses in education, but the outside readings are adjusted to the special interests of both classes of students. Open to Liberal Arts students who have had psychology.

Principles of Elementary Teaching

PROFESSOR WILSON

Principles of Teaching 1. The Educative Process **3 Hrs.**
M., W., F. Fall quarter.

Principles of Teaching 2. The Teaching Process. **3 Hrs.**
M., W., F. Winter quarter.

Principles of Teaching 3. How to Teach. **3 Hrs.**
Spring quarter.

Elementary. A study of the principles of teaching based on psychology. The work is centered about the recitation and school room practices.

Principles of Secondary Education

DR. DAVISON

Principles of Education 1. Principles and Problems I. **3 Hrs.**
M., W., F. Fall quarter.

Principles of Education 2. Principles and Problems II. **3 Hrs.**
M., W., F. Winter quarter.

Principles of Education 3. Principles and Problems III. **3 Hrs.**
M., W., F. Spring quarter.

The principles of education founded upon psychology, biology and sociology are studied to final working bases. The dogmatical is not attempted, but a rational view-point towards present educational problems is emphasized. Open to Liberal Arts students who have had psychology, and who elect history of education.

Methods of Teaching

PROFESSOR WILSON AND DR. DAVISON

Methods of Teaching 1. General. (Elementary) I. **2 Hrs.**
T., Th. Fall quarter.

Methods of Teaching 2. General. (Elementary) II. **2 Hrs.**
T., Th. Winter quarter.

Methods of Teaching 3. General. (Elementary) III. **2 Hrs.**
T., Th. Spring quarter.

A careful study of the value of method in the educative process, and the methods suitable to the different grades and how they should be modified.

Method of Teaching 4. General. (High School) **3 Hrs.**
M., W., F. Fall quarter.

This course is a study of a series of phases of the scientific methods of presenting high school subjects, and checking on the results.

Methods of Teaching 5. Special. (Elementary) **5 Hrs.**

The various elementary branches listed in the "Two Year" schedule are taken up with a view to gaining advanced academic knowledge and an acquaintance with the more improved methods of teaching them. Selected texts in both subject matter and methods are made the basis in each branch.

Methods of Teaching 6. Special. (Secondary) **3 Hrs.**
M., W., F. Winter quarter.

Students taking this course will be divided into groups according to the subject they are preparing to teach. Each student must prepare a thesis on the better methods of teaching in his chosen field. The material for this study will be based upon prescribed library readings, a practical study of the methods used by the instructors in the preparatory department, and local high school, and the counsel of the professor in charge.

Public School Drawing

PROFESSOR LONG

This is an elementary course based upon well established principles of expressing thought and action by symbols. No special talent is required to take this course, as the principles may be worked out mechanically. Required of all students wishing a diploma in Education. Given in Fall and Summer quarters. Three hours credit.

Public School Music

PROFESSOR KILLEEN

No extra charge for this special training in the music department. Fall or Summer quarters. Three hours credit.

Hygiene

PROFESSOR WILSON AND DR. DAVISON

Hygiene 1. Health and Sanitation. **5 Hrs.**

Spring quarter.

This is a composite course comprising health work in the school, including that of the teacher and pupils; a theoretical consideration of the intimate relation existing between mental and physical development, and plays and games which promote physical and moral growth. Prescribed readings, lectures, actual participation in games with children, and sanitary surveys. Open to all students in the School of Education who are prepared to carry the course.

Hygiene 2. Educational Hygiene. **5 Hrs.**

Winter quarter.

This course is pursued by seniors taking the training of High School teachers. It includes health sociology, rural school health administration, medical supervision, school sanitation, play and recreation, and the teaching of hygiene.

The Observation of Teaching

Through the cooperation of the Ada public schools and the preparatory department of the University this work is accessible to all. Only a limited number, however, can be accommodated at one time, and special arrangement must be made as early as possible. It is advantageous to take the work daily, and attend a conference conducted by a training teacher. Credit is based upon attendance at the class, the weekly conference, and the nature of the reports. Three credit hours a quarter.

Practice Teaching

The cadet teachers train for the elementary work in the public schools. Those planning for secondary work teach in the preparatory department. As in Observation, only a limited number can be accommodated at once, and special arrangement must be made through the Dean. All work must be done by lesson plans under the immediate direction of the regular teacher in charge, and supervised by a training teacher. Credit is given to those only who show evidence of efficiency. The work is regarded as laboratory study, and only one hour a day will be recognized. Credit, three hours a quarter.

The Summer Quarter

The work of the Summer School is carefully organized and fully meets all the requirements of the State Department of Education.

For the summer of 1919, the work will be arranged to accommodate, first, those who wish to meet only the legal requirements; and, second, those who desire to complete a schedule leading to a diploma and state certificate. On the completion of the special schedule of ninety class hours, "Certificates of Professional Instruction" are issued. Students desiring full collegiate credit must register at the beginning of the summer quarter and continue their work during the entire quarter.

Lectures by eminent educational leaders of the country are regular features of the Summer School, and are free to the students of the University of whatever department.

Besides the regular academic and collegiate instruction, classes are formed in all the subjects prescribed by the State Department of Education for professional training and also in Home Economics and Rural Education. Arrangements have also been made for two full courses in primary methods, including plays, games, and so forth.

For further particulars send for a Summer School Bulletin.

Ohio Northern Educational Society

The Ohio Northern Educational Association holds regular weekly meetings, at which addresses and lectures are given and papers on subjects of vital importance to every teacher are read and discussed. Membership in this society is open to all students of the College of Education.

Employment Bureau

This Bureau assists Ohio Northern students in securing teaching positions. In the past year many graduates and former students were brought into direct communication with school officers in search of superior teachers. A number of superintendents and principals owe their present positions to direct calls to this bureau. The demand for teachers of science, agriculture, physical training and manual training was in excess of the properly qualified candidates.

No charge is made for the services of this bureau, but only teachers of merit will be registered.

THE PREPARATORY SCHOOL

FACULTY

ALBERT EDWIN SMITH, D.D., Ph.D.,
President

RICHARD HOLMES SCHOONOVER, A.M.,
Principal
English Grammar, Greek

HENRY WHITWORTH, A.B.,
Latin

WILLIAM CLAUDIUS GROTH, A.M.,
Modern Foreign Languages

WILLIAM HENRY FREUND,
Instructor in French

FRANK LEWIS BERGER, A.B.,
Physics

English and History

ELLEN KATHRYN ROTHROCK,
Algebra, Geometry

Physiology, Botany

The Preparatory School is organized for the purpose of (1) preparing students for college entrance, (2) affording an opportunity to any desiring to complete the work commonly required in first-class high schools.

The courses of study in the preparatory school are arranged to meet the usual requirements for college entrance, the minimum of which is fifteen units. The time value of a unit is 120 clock-hours of class periods; two hours of laboratory work considered equivalent to the one recitation or class period.

The subjects, distributed by years and terms as shown in the schedules following, are to be taken, as far as possible, in the order indicated.

If a student, on completing the preparatory curriculum, desires to enter college elsewhere, a certificate is issued, showing that the entrance work has been finished. This certificate is accepted in lieu of entrance examinations by the Ohio State University and other leading colleges, Ohio State Medical Board, and by the Supreme Court of Ohio in lieu of the "preliminary" to the bar examinations.

Preparatory to Collegiate Courses for A.B. Degree

FIRST YEAR	SECOND YEAR	THIRD YEAR
English Composition Algebra 1 Beginning Latin 1	Preparatory Rhetoric 1 Plane Geometry 2 Caesar 2	Physics 3 Ancient History Cicero 3 and Virgil 1
Adv. English Grammar Algebra 2 Beginning Latin 2	Preparatory Rhetoric 2 Plane Geometry 3 Greek 1 or German 1 or French 1 or Spanish 1	English Lit. 2 Med. and Mod. Hist. 1 Virgil 2
English Literature 1 Algebra 3 Beginning Latin 3	Cicero 1 Physics 1 Greek 2 or German 2 or French 2 or Spanish 2	English Lit. 3 Med. and Mod. Hist. 2 Anabasis 1 or German 4 or French 4 or Spanish 4
Preparatory Botany Plane Geometry 1 Caesar 1	Physics 2 Cicero 2 Greek 3 or German 3 or French 3 or Spanish 3	American Lit. Virgil 3 Anabasis 2 or German 5 or French 5 or Spanish 5

Preparatory to Collegiate Courses for B.S. Degree

FIRST YEAR	SECOND YEAR	THIRD YEAR
English Composition Algebra 1 Beginning Latin 1	Preparatory English History Plane Geometry 2 Caesar 2	Physics 3 Ancient History Ger. 4 or French 4 or Spanish 4
Advanced English Grammar Algebra 2 Beginning Latin 2	Preparatory American History Plane Geometry 3 German 1 or French 1 or Spanish 1	English Lit. 2 Med. and Mod. Hist. 1 Ger. 5 or French 5 or Spanish 5
English Lit. 1 Algebra 3 Beginning Latin 3	Physics 1 Prep. Rhetoric 1 German 2 or French 2 or Spanish 2	English Lit. 3 Med. and Mod. Hist. 2 Physiology 1
Preparatory Botany Plane Geometry 1 Caesar 1	Physics 2 Prep. Rhetoric 2 German 3 or French 3 or Spanish 3	American Lit. Physiology 2 Solid Geometry or Civics

DESCRIPTION OF COURSES

English

1. **English Composition.** (Sykes). This course includes a brief review of grammar, theme writing, paragraph writing, sentence structure, word study, capitalization, punctuation; the writing of letters, telegrams, business forms, et cetera. Some attention is given to versification. Stevenson's "Treasure Island" is read. Short daily themes are required.

2. **Rhetoric I.** (Brooks). Narration and description. This course is closely co-ordinated with English literature. Stevenson's "Kidnapped" is carefully studied. The theme work is largely based upon the literature the student has studied. Three short themes are required each week, and one long theme for the quarter. Prerequisite: Course I.

3. **Rhetoric II.** (Brooks). Exposition and argumentation. The aim of this course is to teach the student to write clearly. The theme work is based upon physics, physiography, civics, history and literature.

There is practice in brief making and debating. Macaulay's Essays on Lord Clive and Warren Hastings are carefully studied. Prerequisite: Course 2.

4. **English Literature I.** This course is designed for those beginning the study of English literature. The following classics are read: Shakespeare's The Merchant of Venice; Coleridge's The Rime of the Ancient Mariner; Scott's The Lady of the Lake; Goldsmith's The Deserted Village; Goldsmith's The Vicar of Wakefield; Gray's Elegy; Scott's Ivanhoe. Attention is given to the biographies of the authors and to versification. Prerequisite: Course 1.

5. **English Literature II.** (Long). This course includes (1) a study of the History of English literature to the Age of Romanticism; and (2) the study of the following classics: Eliot's Silas Marner; Browning's Shorter Poems; Thackeray's English Humorists; Palgrave's Golden Treasury; Shakespeare's Julius Caesar, and selections from Huxley. Prerequisite: Course 4.

6. **American Literature.** (Halleck). A brief survey of the history of American literature is given. The following classics are read: Selections from Lincoln; Irving's Sketch Book; selected poems of Bryant, Longfellow, Whittier, Poe, Lowell, Lanier; Hawthorne's The House of Seven Gables.

7. **English Literature III.** (Long). This course includes (1) the history of English literature beginning with the Age of Romanticism; and (2) the study of the following classics: Carlyle's Essay on Burns; or Macaulay's Life of Samuel Johnson; Burke's Speech for Conciliation, or Washington's Farewell Address and Webster's First Bunker Hill Address; Shakespeare's Macbeth or Hamlet; Milton's Comus, L'Allegro, Il Penseroso. In each of the courses 4, 5, 6, and 7, a number of short papers are required. Prerequisite: Course 6.

Mathematics

1. **Algebra I.** (Wentworth). Algebraic notation, simple equations, positive and negative numbers, fundamental processes as applied to algebraic numbers, special rules, factoring, common factors and multiples.

2. **Algebra II.** (Wentworth). Fractions, fractional equations, simultaneous equations, simple indeterminate equations, inequalities, involution and evolution, theory of exponents, radicals.

3. **Algebra III.** (Wentworth) Imaginary expressions, quadratics, ratio and proportion, progressions, variables and limits, properties of series, binomial theorem, logarithms.

4. **Geometry I.** Plane. (Wentworth and Smith). Principles, propositions and originals. Special stress is laid on original work in all courses.

5. **Geometry II.** Plane. Continuation of course 4. Circles, construction, similar polygons.

6. **Geometry III.** Plane. Continuation of course 5. Areas of polygons, regular polygons.

7. **Geometry IV.** Solid.

History

1. **Ancient History.** (Myers, Davis's Readings). An introductory study of the ancient nations, especially Greece and Rome, and the chief events of the early Middle Ages, down to the death of Charlemagne (814). Offered every Fall quarter and also in the summer of 1919.

2. **Mediaeval and Modern History I.**__(Myers, Emerton). A brief review of ancient and early mediaeval history; then, as thorough a study as time will permit of the period from Charlemange to the Reformation. Winter quarter.

3. **Mediaeval and Modern History II.** (Myers, Scherill). As thorough a study as possible of the leading events and institutions and dominant personalities of the modern period. Spring quarter.

4. **English History.** (Cheyney, text and readings). An introductory study of the growth of the English nation. Fall quarter.

5. **American History.** (Channing, Hart's Source Book). An elementary course in the history of the American nation from 1492 to the present time. Offered every winter quarter and also in the summer of 1919.

6. **Civics.** (Guitteau). An elementary course in American government. Spring quarter.

Science

1. **Physics I.** (Mann and Twiss). Class work and individual laboratory work in motion, force, energy, machine, properties of matter and dynamics of fluids. Four hours a week the first half of the quarter and six hours a week the last half are spent in individual laboratory work by each student.

2. **Physics II.** (Mann and Twiss). Lectures and recitations on sound, heat and light. Each student spends sixty hours in individual laboratory work on these subjects.

3. **Physics III.** (Mann and Twiss). Lectures, recitations and demonstrations in magnetism and electricity. Sixty hours in experimental demonstrations, measurements and testing are required of each student.

4. **Physiology I and II.** A course in Human Physiology for teachers and for students preparing for examinations. The laboratory work covers the Harvard Entrance Requirements, and much of it can be adapted to schools where the teacher and pupils furnish all of the apparatus and materials. Many demonstrations are given by the instructor which are too difficult for the student to do alone. Students

are assigned desk outfits, two at each table, for the purpose of assisting each other in manipulation and observation.

5. **Physical Geography.** A study of earth forms and processes and the geography of plants and animals. The work is based upon Salisbury's Physiography (briefer course), and due attention is given to laboratory and field work.

6. **Preparatory Botany.** (Phanerogamic). A study of the germination, growth and reproduction of flowering plants, including plant structure, physiology and classification. The subject matter of this course is similar to the work of the best high schools that are well equipped and do a large amount of laboratory work.

Latin

1. **First Lessons.** Jenner and Wilson's "Caesar's First Campaign." Five hours a week. Three quarters. Roman Pronunciation. First twenty-nine chapters of Book I., Caesar's Gallic War.

2. **Caesar's Gallic War.** Books II., III., IV., (or equivalent) and prose composition. Five hours a week. Two quarters. Emphasis is laid on prose composition as a means of acquiring a working knowledge of Latin syntax. Walker's or any quantity-marked text, is used. Mitchell's The Art of Writing Latin.

3. **Cicero** and prose composition; six orations, including the four against Cataline and the Manilian Law. Five hours a week. Two and one-half quarters. Allen and Greenough, or any quantity text, is used. Mitchell's The Art of Writing Latin.

4. **Virgil's Aeneid,** six books. Prosody, especially dactylic verse. Five hours a week. Two and one-half quarters. Knapp's Virgil.

Greek

1. **First Lessons.** White's "First Greek Book." Five hours a week. First quarter, lessons 1-27; second quarter, lessons 28-54; third quarter, lessons 55-80.

2. **Xenophon's Anabasis.** Four books. Goodwin's text. Five hours a week. Two quarters.

German

1. **German I.** Pronunciation, elements of grammar, easy reading, practice in speaking and writing German.

2. **German II.** Continuation of course 1.

3. **German III.** Drill on grammar, memorizing of colloquial sentences, readings, translations of colloquial praxis.

4. **German IV.** Reading and translation of masterpieces of representative German authors, study of syntax, prose composition, conversational praxis.

5. **German V.** Study of German classics, prose composition.

French

1. **French I.** Pronunciation, grammar, reading, composition and oral exercises.

2. **French II.** Continuation of course I.

3. **French III.** Reading, grammar and exercises.

4. **French IV.** Reading and translation of French masterpieces, studies in syntax, conversational praxis.

5. **French V.** Study of French classics, conversational praxis.

COLLEGE OF ENGINEERING

FACULTY

ALBERT EDWIN SMITH, D.D., Ph.D.,
President

THOMAS JEFFERSON SMULL, Arch., C.E.,
Executive Secretary

CHARLES ADDISON MILLER, C.E.,
Dean
Civil Engineering

JOHN ALFRED NEEDY, B.S., M.E.
Mechanical Engineering

FLOYD FRED TURNER, E.E.,
Electrical Engineering

WIGHTMAN S. BECKWITH, A.M.,
Higher Mathematics

ELLEN KATHRYN ROTHROCK, A. B.,
Mathematics

LENIX CRAIG SLEESMAN, Pharm.C.,
Chemistry

FRANK LEWIS BERGER, A.B.,
Physics

Geology and Mineralogy

Metallurgy

WILLIAM CLAUDIUS GROTH, A.M.,
Modern Languages

CHILDE HAROLD FREEMAN, B.S.,
English

WILLIAM WESLEY RUNSER, LL.B.,
Contracts

Aim

The courses offered aim at laying a groundwork of sound theory and, at the same time, imparting such instruction in the usual professional practice as shall equip the student for efficiency in any position to which he may be called. The technical branches are taught by scientifically trained teachers of experience in practical engineering.

By omitting subjects not directly bearing on Engineering, the time required in other technical schools for completing the work leading to a degree is shortened in Ohio Northern to about two and a half years. An engineering degree is thus placed within the reach of thousands of young men whose circumstances will not permit them to spend the long period of four years in preparing for a vocation.

To accommodate those desiring the culture gained through the study of the "liberal arts and sciences" in addition to the thorough technical training, the College of Liberal Arts is open to all Engineering students free of extra tuition.

Admission

Students presenting certified credits for the subjects required for entrance to the respective courses set forth in the following pages are permitted to register as candidates for the corresponding Engineering degrees. For prerequisites and description of courses see special bulletin. Preparatory work may be taken here, separately, or in connection with advanced work.

A liberal policy is pursued in giving credit for work done in other colleges. Some credit also is given for practical experience in draughting and field work acquired previous to matriculation, upon receipt of a satisfactory statement from the employer, stating the nature of the work and length of service. Statements must include postoffice address as well as signature of employer.

Time to Enter

In view of the fact that each course is offered from two to four times a year and that numbers of classes are formed each quarter, students may enter at almost any time and find the work they desire. The best time to enter, however, is at the beginning of the quarter. See calendar.

Options

With the advice and consent of the professor in charge, certain subjects may be elected in the various courses to take the place of such as may not appeal to the student in his chosen vocation. These are termed options and are mentioned in the schedules of the courses.

CIVIL ENGINEERING

The technical instruction includes drawing, surveying, railroad engineering, strength of materials, roofs, bridges, foundations, arches, retaining walls, dams, waterworks, river and harbor improvements, sewerage, drainage, hydraulics, water power and geodesy.

Much time is devoted to the study of steel construction, during which the student is made familiar with the computation of stresses, designing, detailing and drawing of roofs, bridges and steel structures of all kinds. Those so desiring may elect advanced work in hydraulics and sewerage, instead of a portion of the structural work of this schedule. The subject of roads and pavements, railroad construction and maintenance and masonry structures are exhaustively treated. Special attention is given to land, topographical stadia and city surveying and leveling. Besides the undergraduate work, special and more elaborate study is arranged for those wishing to prepare for particular positions.

The college is supplied with high-grade instruments and appliances necessary for first-class instruction and practice. The laboratories are well-equipped, the draughting room large and modern, the scientific library excellent.

Instruction is given through class-room exercises, field work and practical drawing and designing. The end in view is to fit men to act as county and city engineers, surveyors, railroad engineers, bridge engineers, structural engineers, hydraulic engineers, and government geodetic engineers.

Schedule

FIRST QUARTER

	Hours
College Algebra I.	1
Trigonometry I.	5
Mech. Drawing I.	4
Physics IV.	4
Est. and Contracts	2½

SECOND QUARTER

College Algebra II.	4
Trignometry II.	2½
Mech. Drawing II.	4
Chemistry II.	5
Analytical Geometry I.	4

THIRD QUARTER

College Algebra III.	4
Calculus I.	4
Mech. Drawing III.	4
Chemistry III.	5
Analytical Geometry II.	4

FOURTH QUARTER

Astronomy	4
Calculus II.	4
Desc. Geometry I.	4
Physics V.	4
Plane Surveying	5

FIFTH QUARTER

Masonry	4
Calculus III.	4
Desc. Geometry II.	4
Physics VI.	5
Field Engineering	5

SIXTH QUARTER

	Hours
Masonry Design	3
Mechanics of Materials I.	5
Analytical Mech.	5
Field Astronomy	2½
Rail Road Survey	5

SEVENTH QUARTER

Mechanics of Materials II.	5
Stresses I.	5
Graphics I.	4
R. R. Economics and Design	5

EIGHTH QUARTER

Geology	3
Stresses II.	5
Graphics II.	4
Hydraulics I.	5
Sewerage	2½

NINTH QUARTER

Least Squares	2½
Higher Structures	5
Bridge Design I.	5
Hydraulics II.	3
Hydraulic Lab.	2
Highway Engineering	2½
Cement Testing	1

TENTH QUARTER

Geodesy	2½
Mill Buildings	3
Bridge Design II.	5
Re-in. Concrete	3
Electric Rys.	2½
Seminar	1
THESIS	

OPTIONS

Machine Design, 4; Metallurgy, 2½; Mineralogy, 2½; Water Supply, 4; Electrical Machinery I., 5; Advanced English or Advanced German or other modern languages, 8.

Note—200 credit hours required for graduation.

Note—2 hours field work constitutes 1 credit hour.

Maximum number of hours per week—23.

Minimum number of hours per week—15.

ELECTRICAL ENGINEERING

The courses offered in this branch of Engineering embrace a thorough study of theoretical and applied electricity.

The first half of the prescribed study is, in the main, the same as that in the Civil and Mechanical Engineering curriculums, including the fundamental engineering sciences, mathematics, drawing and surveying. The last half consists of courses of study in stresses, graphics, strength of materials, hydraulics, steam engines, advanced study in the theory of electricity, a large amount of laboratory research and experiment, shop tests, plant testing, meter testing, machine drafting and designing, power plant and wiring layouts, and a thorough course in electrical machine construction.

The theoretical work is supplemented with practical application in the laboratory and in the design of electrical machinery.

In addition to an excellent Physical Laboratory, the department has a well-equipped Electrical Laboratory. A gas-engine-driven electric lighting system has been installed for lighting the University buildings and grounds. Both for lighting the University buildings and grounds. Both this plant and the plant of the Ada Water, Heat & Light Company are available for inspection and tests by students. In the laboratory, both direct and alternating currents are available for testing purposes. All the service meters of the local lighting company are repaired and calibrated in the University Electrical Laboratory, thus giving the student unexcelled opportunity for studying meter design and operation.

Schedule

FIRST QUARTER

	Hours
Mech. Drawing I.	4
Physics IV.	5
College Algebra I.	4
Trignometry I.	5
Est. and Cont.	2½

SECOND QUARTER

Mech. Drawing II.	4
Physics VI.	5
College Algebra II.	4
Trignometry II.	2½
Anal. Geometry I.	4

THIRD QUARTER

Mech. Drawing III.	4
El. Elec. Mach. I.	5
College Algebra III.	4
Calculus I.	4
Anal. Geometry II.	4

FOURTH QUARTER

	Hours
Mach. Drawing	4
Elec. Mach. I.	5
Physics V.	4
Calculus II.	4
Chemistry II.	5

FIFTH QUARTER

Mach. Design I.	4
Elec. Mach. II.	4
Elec. Mach. IV.	4
Calculus III.	4
Chemistry III.	5

SIXTH QUARTER

Mach. Design II.	4
Elec. Mach. III.	4
Mech. Materials I.	5
Desc. Geometry I.	4
Anal. Mech.	5

SEVENTH QUARTER

Thermo. I.	5
El. Elec. Mach. II.	5
Mech. Materials II.	5
Stresses I.	5

EIGHTH QUARTER

Elec. Mach. V.	5
Telephone Engineering	5
Hydraulics I.	5
Plane Surveying	5
Seminar	1

NINTH QUARTER

Elec. Mach. VI.	5
Elec. Mach. VII.	5
Hydraulics II.	3
Hydraulic Lab.	2
Steam Turbines	5

TENTH QUARTER

Elec. Rys.	2½
Elec. Circuits	2½
Adv. A. C.	5
Elec. Mach. IX.a	4
Elec. Mach, IX.b	4
THESIS	

OPTIONS

Descriptive Geometry II., 4; Electric Meters, 4; Storage Batteries, 4; Telephone Engineering, 4; Metallurgy, 2½; Railroad Engineering, 5; Gas Engines, 5; Adv. A. C. Lab., 2½; Differential Equations, 4; Adv. Eng. or Adv. German or other modern languages, 8.

Note—200 hours are required for graduation.

Note—Two hours laboratory work constitutes one credit hour.

Maximum number of hours per week—23.

Minimum number of hours per week—15.

MECHANICAL ENGINEERING

Mechanical Engineering deals with the transformation and transmission of energy, and with the theory and construction of mechanism and machinery.

The first half of the curriculum consists of the basic engineering studies. In the latter half the usual mechanical engineering studies are pursued. Thorough training is given in machine drafting, machine designs, thermodynamics, steam engines, steam boilers, gas engines, electrical machinery and steam power plants.

The University has its own gas-engine-driven lighting plant and a central steam heating plant, lighting and heating all the University buildings. This equipment is installed with special convenience for making tests on boilers, heating apparatus and power apparatus. In addition the central heating and lighting plant of the Ada Heating and Light Co., with its equipment of Corliss engines, high pressure cold and hot water pumps, boilers, et cetera, is open to the students for inspection and test.

The University, because of increasing power demands, contemplates building in the near future a modern power plant equipped with oil and gas engines of the latest type, with a view to making it a part of the mechanical laboratory, in which tests for efficiency and fuel consumption may be easily and quickly made. The work of installing will be done largely by student help, who thus will get practical experience in moving and erecting engines, switch-boards, storage batteries, etcetera. Since the plant will be operated by student help, additional practical experience will be gained.

Schedule

FIRST QUARTER

	Hours
Mech. Drawing I.	4
Physics V.	4
College Algebra I.	4
Trignometry I.	5
Estimates and contracts	2½

SECOND QUARTER

Mech. Drawing II.	4
Analytical Geometry I.	4
Physics VI.	5
College Algebra II.	4
Trignometry II.	2½

THIRD QUARTER

Mech. Drawing III.	4
Analytical Geometry II.	4
Physics IV.	5
College Algebra III.	4
Calculus I.	4

FOURTH QUARTER

Thermodynamics I.	5
Elem. Elect. Mach. I.	5
Chemistry II.	5
Calculus II.	4
Machine Drawing	4

FIFTH QUARTER

Thermodynamics II.	5
Metallurgy	2½
Chemistry III.	5
Calculus III.	4
Machine Design I.	4

SIXTH QUARTER

	Hours
Machine Design II.	4
Mech. of Materials I.	5
Descriptive Geometry I.	4
Analytical Mechanics	5
Steam Power Plants	4

SEVENTH QUARTER

Elem. Elect. Mach. II.	5
Mech. of Materials II.	5
Descriptive Geometry II.	4
Refrigeration	4

EIGHTH QUARTER

Machine shop	4
Heating and Ventilating	4
Hydraulics I.	5
Plane Surveying I.	5
Machine Design III.	4

NINTH QUARTER

Steam Turbines	4
Stresses I.	3
Hydraulics II.	3
Gas Engines	4
Mechanical Lab. I.	4

TENTH QUARTER

Valve Gears	4
Steam Engine Design	4
Seminar I.	1
Steam Boilers	4
Gas Engine Design	4
Mechanical Lab. II.	4
THESIS	

OPTIONS

Reinforced Concrete, 3; Heating and Ventilation, 4; Gas Engine Design, 4; Steam Piping System, 4; Producer Gas and Gas Producer, 4; Advanced English, Advanced German or other modern languages, 8.

Note—200 hours are required for graduation.

Note—Two hours laboratory work constitutes one credit hour.

Maximum number of hours per week.—23.

Minimum number of hours per week—15.

MUNICIPAL AND SANITARY ENGINEERING

The instruction consists of the basic engineering sciences, and most of the general civil engineering subjects, special attention being paid to those branches which have to do with the public health. This calls for a better knowledge of chemistry, bacteriology and sanitation than can be obtained in the usual courses in Civil Engineering, and additional work is given in topographical surveying, water supply, sewer design, sewage disposal, roads and pavements and precise surveying.

Schedule

FIRST QUARTER

	Hours
College Algebra I.	4
Trignometry I.	5
Mech. Drawing I.	4
Physics IV.	5
Est. and Cont.	2½

SECOND QUARTER

College Algebra II.	4
Trignometry II.	2½
Mach. Drawing II.	4
Chemistry II.	4
Anal. Geometry I.	4

THIRD QUARTER

College Algebra III.	4
Calculus I.	4
Mech. Drawing III.	4
Chemistry III.	5
Anal. Geom. II.	4

FOURTH QUARTER

Calculus II.	4
Desc. Geometry I.	4
Physics V.	4
Chemistry VI.	5
Plane Surveying	5

FIFTH QUARTER

Masonry	4
Calculus III.	4
Desc. Geometry II.	4
Physics VI.	5
Municipal Engineering	5

SIXTH QUARTER

	Hours
Masonry Design	3
Mech. of Materials I.	5
Anal. Mech.	5
Chemistry VIII.	5
R. R. Survey	5

SEVENTH QUARTER

Mech. of Materials II.	5
Irrigation	2½
Stresses I.	5
R. R. Economics and Design	5
Sewerage Design	2½

EIGHTH QUARTER

Geology	3
Water Supply	4
Stresses II.	5
Hydraulics I.	5
Sewerage Disposal	2½

NINTH QUARTER

Higher Structures	5
Graphics I.	4
Hydraulics II.	3
Hydraulic Lab.	2
Highway Engineering	2½
Cement Testing	1
Seminar	1

TENTH QUARTER

Municipal Management	5
Mill Buildings	3
Electric Rys.	2½
Reinforced Concrete	3
Graphics II.	4
Seminar	1
THESIS	

Note—200 hours are required for graduation.

Note—2 hours laboratory work constitutes 1 credit hour.

Maximum number of hours per week—23.

Minimum number of hours per week—15.

CHEMICAL ENGINEERING

The aim is to thoroughly acquaint the student with the fundamental principles of chemical science, and to afford him a complete drill in analysis and in the preparation of inorganic and organic products, and thus to enable him to attack and solve the many chemical and metallurgical problems evolving from the rapid development of the industries.

Schedule

FIRST QUARTER

	Hours
College Algebra I.	4
Trignometry I.	5
Mech. Drawing I.	4
Physics V.	4
Est. and Cont.	2½

SECOND QUARTER

College Algebra II.	4
Trignometry II.	2½
Mech. Drawing II.	4
Anal. Geometry I.	4
Chemistry II.	5

THIRD QUARTER

College Algebra III.	4
Calculus I.	4
Mech. Drawing III.	4
Anal. Geometry II.	4
Chemistry III.	5

FOURTH QUARTER

Thermodynamics I.	5
Calculus II.	4
Descriptive Geometry I.	4
Physics IV.	5
Chemistry IV.	5

FIFTH QUARTER

Thermodynamics II.	5
Calculus III.	4
Physics VI.	5
Metallurgy	2½
Chemistry V.	5

SIXTH QUARTER

	Hours
Mech. of Materials I.	5
Elem. Elect. Mach. I.	5
Scientific Management	4
Chemistry VIII.	5

SEVENTH QUARTER

Mech. of Materials II.	5
Elem. Elect. Mach. II.	5
Elect. Mach. I.	5
Chemistry IX.	5

EIGHTH QUARTER

Storage Batteries	4
Hydraulics I.	5
Elect. Mach. V.	5
Chemistry VI.	5

NINTH QUARTER

Mach. Design I.	4
Mech. Lab. I.	4
Hydraulics II.	3
Hydraulic Lab.	2
Graphics	4
Chemistry VII.	5

TENTH QUARTER

Economics I.	5
Steam Engines	4
Electro Metallurgy	2½
Seminar	1
Chemistry X.	5
THESIS	

Note—200 hours are required for graduation.

Note—2 hours laboratory work constitutes 1 credit hour.

Maximum number of hours per week—23.

Minimum number of hours per week—15.

STRUCTURAL DRAFTING

Many young men for reasons, financial or otherwise, do not aspire to the longer courses leading to a degree, but would gladly avail themselves of the opportunity to prepare themselves to enter the busy "Structural Field." For such this schedule has been arranged, on completion of which a certificate will be granted, which should prove to be a valuable passport into the modern drafting room. There is no preparation other than the grades necessary to enter this course.

Schedule

FIRST QUARTER

	Hours
Algebra I.	4
English Composition	5
Mechanical Drawing I.	4
Geometry I.	5

SECOND QUARTER

Algebra II.	4
Geometry II.	5
Preparatory Rhetoric I.	5
Mechanical Drawing II.	4
Physics I.	4

THIRD QUARTER

	Hours
Algebra III.	4
Geometry III.	5
Mechanical Drawing III.	4
Descriptive Geometry I.	4
Business English	4

FOURTH QUARTER

Algebra IV.	4
Machine Design I.	4
Descriptive Geometry II.	4
Graphic Statics	4
Trigonometry I.	5

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THESES

Every candidate for a degree must prepare a thesis upon some technical or scientific study, which lies within the field of the degree sought, and may be either designing, construction, testing or research; the study to be selected by the professor in charge and the subject to be announced not less than twenty-four weeks preceding graduation.

The form of the finished thesis must be in accordance with the requirements of the department and the library and be deposited with the Dean at least four weeks before the conferring of the degree.

DEGREES

The University is empowered to grant the customary scholastic degrees.

The management accepts grades of equal value from other institutions of learning, yet the applicant for a degree is required to do a reasonable portion of his work here. No diploma is granted on grades made wholly in other institutions. No student carrying more than two subjects will be excused from the final examinations during the senior quarter.

SEMINAR

Weekly conferences are held for the purpose of discussing current engineering events and topics.

STUDENT TECHNICAL ORGANIZATIONS

The Ohio Northern Society of Engineers assembles weekly, to read papers and discuss subjects of interest to all engineering students. During the year a number of practicing engineers are invited to address the society on timely and practical topics. All engineering students are eligible to membership.

The Ohio Northern University Branch of the American Institute of Electrical Engineers hold monthly meetings at which original papers and papers printed in the Proceedings of the American Institute of Electrical Engineers are read and discussed. All students interested in electrical engineering are eligible to membership in this Society.

On February 24, 1919, Mr. C. E. Drayer, Secretary of the American Association of Engineers organized a student chapter here. The A.A.E. is a national organization of considerable prominence. All engineering students are eligible to membership who give promise of developing into successful engineers.

EXPENSES

See pages 21, 22, and 23 of this bulletin.

DESCRIPTION OF COURSES

For description of courses and daily schedule of classes, see special Engineering Bulletin.

COLLEGE OF LAW

FACULTY

ALBERT EDWIN SMITH, D.D., Ph.D.
President

WILLIAM WESLEY RUNSER, LL.B.,
Dean
Professor of Law

ELLAHUE ANSILE HARPER, A.M., LL.B.,
Professor of Law

JAMES RALPH SPELLMAN,
Instructor in Law

MARGARET ELEANOR WHITWORTH, B.S.,
Registrar

When Organized

The College of Law was organized as a department of the University in 1885, and numbers among its alumni and former students many of the most prominent lawyers of Ohio and other states. Its graduates have been uniformly successful as applicants for admission to the bar and as practitioners.

Its Purpose

The aim of its founders was to afford an opportunity for students of limited means, to secure a collegiate training in law, and by connection with the University to offer to them the added opportunity of obtaining the general education indispensible to the successful study and practice of law. With this in mind, tuition rates are made very reasonable, and every effort is put forth to accommodate the student of limited means, but earnest purpose.

The courses are planned primarily to train students for the practice of law, but they may advantageously be pursued by anyone desiring to secure a knowledge of the principles and history of law, either as part of a liberal education, or as part of the foundation of a business career, and special attention is given to the needs of such students.

In the training of students for the practice of law, the college has four chief aims:

(a) To give a thorough, systematic grounding in the history and fundamental principles of the law.

(b) Subordinately, but as an essential feature of the work of the college, to give special instruction preparatory to examinations for admission to the bar.

(c) To impart a working knowledge of statute law and court practice and procedure, to the end that the young lawyer may intelligently and readily serve his clients.

(d) To inculcate the principles of legal ethics and of the lawyer's public responsibility to the end that the young lawyer may take his proper place as a leader in his community.

Equipment

The College of Law occupies commodious rooms in the new Lehr Memorial building. Its good working library is now larger and better suited to the work of the College than ever before in its history, several important and valuable sets, including the American Digest System and Lawyer's Reports Annotated, both series, and a set of the best edition of the United States Supreme Court Reports, having been added recently.

Outline of Courses

(In the following outline, the figure preceding the name of the course indicates the number of the course; that following, the number of credit hours given for the satisfactory completion of the course. A credit hour is given for the satisfoctory completion of work requiring one class period a week for one quarter).

First Year

FALL QUARTER	WINTER QUARTER	SPRING QUARTER
1. Elementary Law I. -------5	**2. Elementary Law II. ------5**	**8. Agency -------5**
3. Personal Ppoperty, including Sales ---------5	**6. Bailments -----5**	**9. Partnership ----5**
4. Contracts I. ---5	**7. Torts ---------5**	**10. Domestic Relations ---------5**
	5. Contracts II. ---5	**11. Criminal Law --3**
		12. Criminal Procedure -------3

Second Year

13. Suretyship ----5
14. Insurance -----5
15. Private Corporations -------5
16. Negotiable Instruments -----5

17. Wills ---------5
19. Damages ------3
20. Pleading I. ----5
22. Real Property I.--5

18. Administration of Estates -----5
21. Pleading II. ---5
23. Real Property II. ----------5
24. Municipal Corporations -----5

Third Year

26. Equity I. ------5
30. Evidence ------5
25. Brief Making and Use of Law Books --------3
31. Quiz A --------5
34. Quiz B -------5

27. Equity II. -----5
28. Constitutional Law I. -------5
32. Quiz A --------5
35. Quiz B --------5

29. Constitutional Law II. ------5
33. Quiz A --------5
36. Quiz B --------5

Lectures are given on legal ethics, legal history, international law and court practice.

Method of Instruction

Each subject scheduled in the course of study requires for its completion five recitation periods of one hour each, per week, throughout the quarter, except where otherwise indicated.

The instruction is based upon the text assigned for study, combined, in the second and third years, with a judicious use of cases, and completed, in the third year, with a thorough "quiz," under the personal instruction of the dean, preparatory to examinations for admission to the bar.

The recitation includes a thorough questioning of the student upon the text and cases studied and informal discussions by instructor and students, with constant reference to the statutes and leading cases of the jurisdiction, the whole exercise aiming to combine a knowledge of the history and fundamental principles of the law with its actual application to cases, thus giving the student a thorough grasp of the law, not only in its development, but as it now exists.

Moot Court

Moot Court, under the direct supervision of the faculty forms a regular part of the work, in which each student is expected to participate. He is required to get out all the papers necessary for the case, and to follow the customary order of procedure. Pleadings, writs, motions and journal entries, together with the principles of proceeding in appeal and error, are supervised in detail; juries are chosen, witnesses examined, motions heard, and everything is made to conform as nearly as possible to the practice of the regular courts.

Admission

Students may enter the College at any time, but, in order to receive full credit toward graduation, for work done, must enter at the beginning of a quarter.

At the beginning of the college year 1917-1918, the following rules as to the admission to the College became effective:

Candidates for a degree will be required, upon their application for admission, to furnish satisfactory evidence of graduation from a first-grade high school, or from a school of equivalent standing.

Students not candidates for a degree may enter upon proving, to the satisfaction of the Dean, that they possess such general education as will enable them to pursue the study of law intelligently. Special effort will be made, as in the past, to offer such students every reasonable advantage, and special attention will continue to be given to the needs of special students who are preparing for the examinations for admission to the bar.

Preliminary to Bar Examination

The preliminary literary work required for admission to the Bar examination may be taken in the University under the regular law tuition, and a certificate showing the completion of either of the courses in the Preparatory School admits the student to the Bar examination in this state, without a preliminary examination.

Graduation

The degree of Bachelor of Laws is conferred on students who have completed the prescribed course of study.

The following conditions as to graduation will be enforced:

Credit toward graduation will be given for not more than one year's study of law under the actual tuition of a reputable practicing attorney at law. Such study must be proved by the certificate of such attorney at law, not only as to the length of time spent in study, but as to the subjects studied, the text or case books which formed the basis of the study, and the quality of the work done by the student.

Credit toward graduation will be given for not more than two years' study of law in residence in any reputable law school in the United States maintaining a three years' course of study, and proper credit will be given for study in residence in any reputable law school in the United States maintaining a course of study less than three years in legth.

No credit will be given for correspondence school work.

No student will be graduated who has not studied law for a period equivalent to nine college quarters, of which time a period equivalent to at least six quarters must have been spent in residence at some reputable law school, and of which at least the last three quarters must have been spent in residence in this College of Law.

Students not candidates for a degree may select from the courses offered such work as they desire, with the approval of the dean, not to exceed a maximum of 20 credit hours per quarter.

The summer quarter is a full quarter of twelve weeks. Full courses in the College of Law are offered, under the instruction of members of the regular faculty, and full credit is given for work done in this quarter. This quarter offers an excellent opportunity for teachers, and others who are unable to be in attendance during the remainder of the year, as well as for regular students who wish to complete their course in less than three calendar years, or to make special preparation for bar examinations. Quiz classes, in preparation for such examinations, are formed regularly as part of the work of this quarter, and classes are formed in such of the other regular courses as may be necessary, to meet the demands of students.

Expenses

For expenses see pages 21, 22 and 23 of this bulletin.

COLLEGE OF COMMERCE

FACULTY

Albert Edwin Smith, D.D., Ph.D.,
President

Emmet Elijah Long, B.C.S.,
Dean
Bookkeeping, Banking, Salesmanship, Finance, Business Administration

Penmanship, Show Card Lettering, Commercial Arithmetic, Rapid Calculation, Business Organization

Pauline Irene Christie, Grad. Sten.,
Stenography, Typewriting, Business English, Commercial Correspondence, Secretarial Instruction

William Wesley Runser, LL.B.,
Contracts, Negotiable Paper, Insurance

Economics

William Claudius Groth, A.M.
German, French, Spanish

John Davison, M.S., Ped.D.,
Principles of Education, School Administration

Carrie Adel Wilson, B.E.,
Methods and Principles of Teaching, Advanced Arithmetic

Richard H. Schoonover, A.M.,
English Grammar

English Composition

Assistant in Bookkeeping

Aim

The College of Commerce aims to prepare young men and women to "do things" in the realm of commercial activity.

Location and Equipment

This College occupies the entire third floor of Lehr Memorial, recently equipped throughout with up-to-date fixtures and office furnishings for class use, Remington and Monarch Typewriters, Burrough's adding machine and all appliances needed in efficient instruction. The quarters are roomy, with abundance of light, ventilation and toilet conveniences.

The Courses of Study

The courses of study, thorough and practical, are arranged to meet the needs of young men and women planning to enter fields of business organization and administration or upon clerical, stenographic, secretarial or commercial teaching careers.

Time Required

It requires about three quarters (nine months) to complete the short course either in Bookkeeping or Stenography, the length of time depending on previous educational preparation, aptness and application; the combined Business and Secretarial course, approximately five quarters; the Commercial Teachers' Normal course, six quarters; the course in Business Administration, from nine to twelve quarters. Students are promoted as rapidly as they advance, but no student is permitted to enter a higher or advanced class until all prerequisite work has been completed.

Degrees and Diplomas

The degree, "Bachelor of Commercial Science," is conferred on students completing the course in Business Administration; those completing the Commercial Teachers' Normal course are granted a diploma with the rank, "Graduate of Pedagogy in Commercial Science;" persons completing the Combined Business and Secretarial course are ranked "Graduate in Bookkeeping and Stenography;" students completing the shorter course are certified and graduated with the rank, "Graduate in Bookkeeping" and "Graduate in Stenography," respectively.

The cost of the diploma is $5.00; certificates, $1.00. Those desiring parchment will pay one dollar additional.

Special Students

Those not caring to pursue a prescribed course of study, if able to meet the requirements for either regular or special students, may be admitted as special students, at the discretion of the Dean. They will be given credit for whatever work is completed, and these credits may be applied on regular courses later, should they become candidates for graduation.

When to Enter

Students are admitted at the beginning of each quarter. Many of the subjects scheduled in the two short courses, the Combined course, and the Teachers' Normal course are repeated each term.

In the Summer quarter an excellent opportunity is given for teachers and those unable to attend during the other months of the year to pursue a course "piecemeal" until completed.

See calendar on the second page of the catalogue.

Situations for Students

Positions are not guaranteed, but the Employment Bureau of the University cheerfully assists graduates and students qualified for positions. There is no charge for this except the necessary postage.

The O. N. U. Commercial Club

The Commercial Club is a live organization maintained by the students and faculty of the College of Commerce. It meets regularly and discusses the many phases of business activity and commercial topics.

University Advantages

The University offers to every student of the College of Commerce additional privileges: Admission to courses in the College of Liberal Arts without extra charge when prerequisites have been met; the opportunity of obtaining military instruction, of participating in literary work in the three literary societies; and the benefits of college environment and associations, lectures, athletic tournaments, contests, et cetera.

Teachers' Normal Commercial Training

The Commercial Teachers' Normal Course, outlined hereafter, meets the present legal requirements for accrediting, and the College is authorized to announce that the State Department will recognize all graduates and will grant, without further examination, a four-year provisional certificate to teach commercial subjects in the public high schools and educational institutions.

Short Bookkeeping Course

(Certificate—Graduate in Bookkeeping. Prerequisite:
A common school education.)

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER
Introductory Bookkeeping and Accounting Advanced Arithmetic English Composition or English Grammar Rapid Calculation Penmanship	Practical Bookkeeping and Accounting Commercial Arithmetic Business English Typewriting Spelling	Office and Banking Practice Commercial Law Typewriting and Manifolding Salesmanship

Students desiring credit for Bookkeeping done elsewhere must present the books representing the work done, including the blanks or sets, or prove the amount and nature of the work done, or pass an entrance examination at the discretion of the instructor. This applies to all the schedules of the College.

Short Course in Stenography

(Certificate—Graduate in Stenography. Prerequisite:
A common school education.)

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER
Stenography I. Typewriting English Composition or English Grammar Spelling	Stenography II. Penmanship Business English Typewriting and Manifolding	Stenography III. Office Practice Typewriting and Multigraphing Penmanship Commercial Correspondence Commercial Law

Combined Business and Secretarial Curriculum

(Rank—Graduate in Bookkeeping and Stenography. Prerequisite: A common school education.)

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER
Introductory Bookkeeping and Accounting Advanced Arithmetic English Composition or English Grammar Penmanship Rapid Calculation	Practical Bookkeeping and Accounting Commercial Arithmetic Typewriting I. Spelling Commercial Law	Office Practice and Banking Stenography I. Business English Typewriting II.

FOURTH QUARTER	FIFTH QUARTER
Stenography II. Typewriting III. Commercial Correspondence Salesmanship	Stenography III. Secretarial Work Typewriting and Manifolding *Elective (to be assigned by instructor)

*Electives in this course bear particularly on the line of work the student expects to follow.

Students pursuing the "combined" course are advised to arrange for remaining steadily at the work for five successive terms, if possible, beginning with the Fall quarter.

Commercial Teachers' Normal Course

(Diploma—Graduate in Pedagogy in Commerce. Prerequisite: Graduation from a first grade high school or its equivalent.)

FIRST YEAR		SECOND YEAR	
Educational Psychology I.	2	Principles of Education I.	3
Introductory Bookkeeping	7½	General Methods	2
Penmanship	2½	Stenography I.	5
Rapid Calculation	1½	Typewriting I.	2½
Business English	5	School Organization I.	2
		School Law	2
		Principles of Education II.	3
Educational Psychology II.	2	General Methods I.	2
Practical Beekkeeping and Accounting (actual business)	5	Special Methods	3
Commercial Arithmetic	5	Stenography II.	5
Commercial Geography	5	Typewriting II.	2½
		School Organization II.	2

Educational Psychology III.	2	Practice Teaching or Observation	5
Office and Banking Practice (laboratory method)	7½	General Methods II.	2
Commercial Law	5	Economics	5
Salesmanship	5	Stenography III.	5
		School Organization III.	2

One hour class-room exercise, five days the week, on work previously prepared, counts 5 credit hours.

One hour instruction on the laboratory plan, five days the week, counts 2½ credit hours.

Length of class-exercise, fifty-five minutes.

Maximum number of hours permitted a week, twenty; minimum, fifteen.

Description of Courses

Introductory Bookkeeping. A thorough study of the principles underlying bookkeeping and accounting, with business practice (budget system). Class exercises and laboratory practice daily.

Practical Bookkeeping and Accounting. Each student is given a capital with which he launches into business for himself. He carries on transactions with his classmates, handles all forms of commercial papers and blanks, and uses daily the current market quotations; he deals with three banks and several offices, does business as individual proprietor, with one partner, with two partners, with three partners, and completes the work as a corporation, requiring the changing from a partnership set of books to a corporation set. Prerequisite: Introductory Bookkeeping.

Office Practice. A continuation of actual business practice, in offices of various kinds, in which the blank books peculiar to each business house are used. The particular branches of business represented in this practice are Real Estate and Insurance, Stock Exchange, Commission, Freight, Wholesale and Retail, and Post Office.

Banking. Three banks are in constant operation, doing on the average as much business as a regular small city bank. From a clerical standpoint each is conducted in a different manner, but there is little variation in the amount of business done by each. Up-to-date methods, in keeping with recent federal laws, and modern books, forms, stationery and appliances are used. The student acts severally as teller, cashier, bookkeeper, draft clerk, and manager of the entire banking business. Credit is allowed for work of high standard only. Prerequisite: A thorough knowledge of bookkeeping and accounting.

English Composition. Prerequisite to Business English for students not graduates of a high school or from equivalent courses of study, and for those deficient in preliminary English training. See Preparatory School.

Business English. A thorough course in practical business letter writing, including postal and general office information. Required in all schedules.

Commercial Correspondence. A continuation of work begun in Business English, with emphasis on collection, follow-up, adjustment, sales, credit and form letters.

Spelling. Regular and systematic drills are given in written and oral spelling in all courses. Students are required to take these drills and pass satisfactory examinations.

Advanced Arithmetic. Classes in advanced Arithmetic are formed in the College of Education in which students pursuing the short courses of the College of Commerce take a thorough review of that subject when beginning.

Commercial Arithmetic. Emphasis is placed on the solution of all kinds of problems met in transaction of business. Thorough from beginning to end.

Rapid Calculation. Drill in speed and accuracy in figures. The training is such that a student in carrying out extensions in invoices and statements, and computing discounts, is able to do it in large part mentally.

Commercial Law. The essentials of law from a business standpoint so presented as to enable one to know and defend his rights.

Shorthand. Thorough instruction in the principles by both individual and class methods, followed by practice in receiving dictation covering all lines of business, with speed, accuracy, phrase and word-sign drills, until the student is able to do practical office work.

The Graham System is taught to all beginners, but the department is prepared to teach any other leading Pitmanic system to commercial teachers who are required to teach any of them. Those having learned the principles of another system, if able to take dictation, are allowed to enter the dictation classes and write their own systems.

Typewriting and Multigraphing. All students pursuing regular courses in the College of Commerce are required to take training in the operation of the typewriter. The Touch system is taught, the instructor supervising the work during every period. Drills are given in every phase of the work required of typewriters.

Typewriting is required to be done in the Typewriting Department. Those taking typewriting elsewhere must present their papers for grades and take examinations, for which a fee of $3.00 is charged.

Students deformed in hands or arms are permitted to elect an equal amount of instruction in some other subject with the approval of the Dean.

Secretarial Duties. Practical training in secretarial work, including the performance of these duties, under direction of the instructor, for the Deans of the University, business men of the city and others requiring the services of secretaries from time to time.

Penmanship and Lettering. The best systems of writing are used, with the advantage of modern methods of instruction. The writing is easily read, rapidly written, simple in forms, natural in slant, easy of movement, and pedagogically taught.

All students in the College of Commerce are admitted to the classes in business writing without extra charge.

Lettering, including display cards, price tickets, decorative designs, etc., is taught to students desiring this kind of instruction.

Professional Subjects in Education. For those preparing to teach commercial subjects. Principles of education, history of education, educational psychology, school management, school law, general and special methods, observation and practice teaching, and such other subjects as are required by the State Department of Public Instruction.. For detailed description, see College of Education.

College of Law Subjects. Sales, contracts, partnership, agency. See College of Law.

Liberal Arts Subjects. Psychology, Sociology, Economics, Spanish, German, French. See College of Liberal Arts.

TUITION—PENMANSHIP

Ornamental penmanship, pen drawing, card writing and show card writing, one hour per day, per quarter________________________$4.50

General penmanship free to students of all departments.

All students in the College of Commerce are admitted to courses in the College of Liberal Arts without extra charge, if the prerequisites to such courses have been met.

For further information regarding tuition and fees of this department see Expenses, pages 21, 22 and 23 of this bulletin.

COLLEGE OF PHARMACY

FACULTY

ALBERT EDWIN SMITH, D.D., Ph.D.
President

RUDOLPH HENRY RAABE, Ph.G., Ph.C.,
Dean
Pharmacy, Materia Medica

LENIX CRAIG SLEESMAN, Ph.G., Ph.C.
Advanced Chemistry

FRANK LEWIS BERGER, A.B.,
Physics

Botany, Physiology

RICHARD HOLMES SCHOONOVER, A.M.,
Pharmaceutical Latin

WILLIAM CLAUDIUS GROTH, A.M.,
Modern Languages

EMMET ELIJAH LONG, B.C.S.,
Penmanship

MARGARET ELEANOR WHITWORTH, B.S.,
Registrar

Under the laws of Ohio, a School of Pharmacy in good standing is (1) one that demands for entrance the certificate of preliminary education issued by the entrance examiner of the State Board of Pharmacy; (2) that has a two-year course covering at least fifty weeks actual instruction occupying two school years with at least two months elapsing between the two years. Each school year must cover at least 250 hours of class room instruction and 350 hours individual laboratory work, and cover at least the work outlined in the "1913 Syllabus."

Advantages Offered Here

The college of Pharmacy of the Ohio Northern University, established in 1887, with constantly added facilities and enlarged plans, is endeavoring to prepare men and women to meet fully, not only the legal requirements, but also the increasing public demand for educated and trained pharmacists.

Practical and thorough courses are offered at the least expenditure of time and money. Equipment, courses offered and facilities for work unsurpassed.

Excellent opportunity for registered "Assistants," if graduates of a recognized college, who wish to review for examination as "Pharmacists."

Young women admitted on an equality with young men.

The Ohio Board of Pharmacy and the Pennsylvania State Pharmaceutical Examining Board grant recognition to the graduates of the O. N. U. College of Pharmacy, who have matriculated since September 1, 1905.

Laboratories

The College has two Pharmaceutical and Dispensing laboratories. The desk arrangement is such as to afford the student every facility for complete and thorough work, and the tables are supplied with an entire outfit of apparatus, including storing closet.

The laboratory for practical chemical work is equipped with all the accessories necessary for chemical analysis and synthesis. For advanced courses there is a complete outfit for gold and silver assaying and other metallurgical work. In this laboratory the student is required to perform a satisfactory amount of analytical and synthetical work under the personal attention of the Professor of Chemistry and an able assistant.

A Microscopical Laboratory has been installed and equipped with a supply of fine instruments for individual microscopic investigation. Fee $6.00 per year.

Requirements for Admission

Applicants for admission to the regular course leading to the degree of Graduate in Pharmacy must present a certificate of preliminary education from the Entrance Examiner of the State Board of Pharmacy.

"The minimum educational requirement for this certificate is the equivalent of eight units as given in a high school of the state of Ohio."

The State Board of Pharmacy announces as follows:

"Two units of credit may be procured by examination in each of the following subjects: Latin, German, English, Manual Arts and Home Economics; one unit of credit in each of the following subjects: Algebra, Plane Geometry, General Science, World History and General History; one-half unit of credit in each of the following subjects: Biology, Botany, Physical Geography, General Geography, Physiology, Bird and Animal Study, English History, Advanced American History, Civics, Commercial Geography, Business Correspondence and Bookkeeping.

Those wishing to pursue the three-year's course of study leading to the degree of Pharmaceutical Chemist (Ph.C.) must present an entrance certificate from the State Examiner and before entering upon the last year of study satisfactory evidence of having completed a course of instruction equivalent to that of first grade High School.

Persons wishing to pursue the four-year course of study leading to the degree of Bachelor of Science in Pharmacy (B.S.) must present an entrance certificate from the state examiner and satisfactory evidence of having completed a course of instruction equivalent to that of first grade High School.

Students from other Colleges of Pharmacy will be admitted to advanced standing upon satisfactory evidence that they have met all the requirements established by this college to attain such standing.

When to Enter

The College of Pharmacy, therefore, opens on Tuesday, September 30, 1919, and continues thirty-two weeks, with an intermission at Christmastide.

The student shall enter the College of Pharmacy on opening date and attend the introductory exercises unless excused by proper authorities. To enter the regular courses the student must present an entrance certificate from the State Examiner, matriculate, and pay tuition and fees as given elsewhere in this bulletin.

Special students may enter at any time upon recommendation of the Dean and approval of the President.

Students who are entitled to advanced standing will enter at the time arranged by the Dean.

Schedule

Degree: Pharmaceutical Graduate

FIRST YEAR

Physiology
Physics
General Inorganic Chem. I.
Pharmaceutical Arithmetic

General Materia Medica
Pharmaceutical Botany I.
General Inorganic Chem. II.
Pharmaceutical Latin

Pharmaceutical Botany II.
Posology
General Inorganic Chem. III.
Pharmaceutical Technique

SECOND YEAR

Pharmacognosy I.
General Organic Chem. I.
Pharmacy I.
Elective

Pharmacognosy II.
General Organic Chem. II.
Pharmacy II.
Elective

Materia Medica
Quantitative Analysis I.
Pharmacy III.
Elective

1440 clock hours are required for graduation.

For courses of study leading to the degrees of Pharmaceutical Chemist (Ph.C.) and Bachelor of Science in Pharmacy (B.S.), inquire of Dean.

DESCRIPTION OF COURSES

Materia Medica Section

Physiology. An elementary course in human anatomy and physiology to prepare the student for the intelligent understanding of the action of drugs. 60 hours.

General Materia Medica. In this course the student becomes acquainted with the general classification of drugs and medicines which have specific uses, such as astringents, carthartics, emetics, nervines, sedatives, tonics and the like. 15 hours.

Pharmaceutical Botany I. The aim of this course is to acquaint the student with the main groups of plants, their characteristics, and economic importance. The course is progressive beginning with the lowest types and ending with the highest. Lectures, recitations, and laboratory. 80 hours.

Pharmaceutical Botany II. The cell, cell contents, structure of the parts of the plant, such as root, stem, leaf, flower, fruit, and seed are the subjects of this course. A few drugs from each classification are considered. Lectures, recitations, and laboratory. 80 hours.

Posology. This is a brief course to familiarize the first year student with the science of dosage. 15 hours.

Pharmocognosy I. In this course the student is taught how to identify, select and value drugs. He learns the official names, definition, habitat, and constituents of each drug studied. Lectures, recitations, and laboratory. 80 hours.

Pharmacognosy II. This is a continuation of Pharmacognosy I. Attention is given to preservation, adulteration and identification of powdered drugs. Lectures, recitations and laboratory. 80 hours.

Materia Medica I. A course in inorganic Materia Medica. Special attention is given to official names, physiological action and doses. The physical and chemical properties of these drugs receive attention in so far as they influence their action. Lectures, recitations and quiz. 80 hours.

Materia Medica II. A course in organic Materia Medica (vegetable). The organic drugs are classified according to their action and use. Attention is given to official names, constituents, action and dosage. Lectures, recitations and quiz. 80 hours.

Materia Medica III. A course in organic Materia Medica (animal). These drugs are classified according to their action and use. Attention is given to official names, definitions, source, action and dosage. Lectures, recitations and quiz. 40 hours.

Toxicology. A study in the principles of poisoning, classification of poisons and effects of each class. Lectures, recitations and quiz. 40 hours.

Biological Assaying. Attention is given to biological assaying and standardization of the U. S. P. drugs that are most satisfactory valued by this method. Lectures, recitations and laboratory. 80 hours.

Chemistry Section

Physics. A course in elementary physics with a direct bearing upon pharmaceutical and chemical processes. Lectures, recitations and laboratory. 50 hours.

General Inorganic Chemistry I. This is an introductory course in General Inorganic Chemistry. Chemical theory, atoms, molecules, valence, writing and naming chemical formulas, are the chief topics. Lectures, recitations and laboratory. 80 hours.

General Inorganic Chemistry II. A brief course in general Inorganic Chemistry based upon the non-metals. Occurrence, preparation, physical and chemical properties and their combinations are carefully studied. Lectures, recitations and laboratory. 80 hours.

General Inorganic Chemistry III. A course in General Inorganic Chemistry based upon the metals. Their occurrence, preparation, physical and chemical properties and combinations are carefully studied. Lectures, recitations and laboratory. 80 hours.

Qualitative Analysis I. A course in inorganic Qualitative Analysis. Prerequisites: General Inorganic Chemistry I., II. and III. The greater portion of this course is devoted to laboratory practice. Lectures, recitations and laboratory. 80 hours.

Qualitative Analysis II. This is a continuation of Qualitative Analysis I. Lectures, recitations and laboratory. 80 hours.

General Organic Chemistry I. A study of the structure and constituents of the carbon compounds; the hydro carbons and carbo-hydrates with many of the addition and substitution products. Lectures, recitations and laboratory. 80 hours.

General Organic Chemistry II. This is a continuation of General Organic Chemistry I. Lectures, recitations and laboratory. 80 hours.

Quantitative Analysis I. This work consists of volumetric and gravimetric analysis; the determination of acidity and alkalinity; the analysis of organic and inorganic salts. Lectures, recitations and laboratory. 80 hours.

Quantitative Analysis II. A continuation of Quantitative Analysis I. A large amount of work is done which the Food and Drug Act demands. Lectures, recitations and laboratory. 80 hours.

Special Chemistry. This includes the chemistry of the Pharmacopoeia. Assaying of inorganic, organic, and special alkaloidal assaying are offered. Classes are arranged to meet the requirements of the student. For further information consult the Dean.

Pharmacy Section

Pharmaceutical Arithmetic. A course in calculation pertaining to Pharmacy. The student is taught current weights and measures. Metric system, English system, proportion, alligation, specific gravity and specific colume, comparison of thermometer scales, are the chief topics. Special attention is given to the metric system of weights and measures and their relationship with the English system of weights and measures. Lectures and recitations. 40 hours.

Pharmaceutical Latin. A course covering such essentials of inflection and syntax as to familiarize the student with the etymology and construction of the nomenclature used in the United States Pharmacopoeia and National Formulary and to enable him to read prescriptions. Lectures and recitations. 40 hours.

Pharmaceutical Technique. An introductory course in the principles upon which pharmaceutical operations are based. Lectures, recitations and laboratory. 80 hours.

Pharmacy I. Galenical. The chief topics of this course are waters, infusions, decoctions, syrups, mucilages, spirits, tinctures, fluid extracts, and other classes of preparations of quite similar nature. Lectures, recitations and laboratory. 80 hours.

Pharmacy II. Galenical. This course is a continuation of pharmacy I. Attention is given to those official preparations which require special skill and careful manipulation. Mixtures, emulsions, liquors, certain acids, plasters, suppositories, etc., are the chief topics. Lectures, recitations and laboratory. 80 hours.

Pharmacy III. Dispensing. This is a course in extemporaneous pharmacy. Prescriptions, compounding and dispensing prescriptions, and incompatibilities are the chief subjects of this course. The student is given a liberal opportunity to compound actual prescriptions. Lectures, recitations and laboratory. 80 hours.

Pharmacy IV. Commercial. Bookkeeping, Business Correspondence, Commercial Law, Salesmanship, Pharmaceutical Laws and business practice, are some of the subjects offered under this heading. See schedule for electives. Lectures, recitations and laboratory. 80 hours. Courses elected in which there is no laboratory practice 60 hours will be required.

Requirements for Graduation

Each applicant for the degree Pharmaceutical Graduate (Ph.G.) must be of good moral character, must have satisfactorily completed the two-year's course of study, the last year of which being spent in resident study in this college.

Each applicant for the degree of Pharmaceutical Chemist (Ph.C.) must be of good moral character, must have satisfactorily completed the three-year's course of study, the last year of which being spent in regular study in this college.

Each applicant for the degree of Bachelor of Science in Pharmacy (B.S.) must be of good moral character, must have satisfactorily completed the four-year's course of study, the last year of which being spent in resident study in this college.

Expenses

For expenses, see pages 21, 22 and 23 of this catalog.

COLLEGE OF MUSIC

FACULTY

ALBERT EDWIN SMITH, D.D., Ph.D.,
President

FREDERIC THOMAS KILLEEN,
Dean
Voice, Musical History

WILLIAM P. LAMALE, Mus.B.,
Piano, Organ, Harmony

ALETA ROSE BOWERS,
Voice, Piano and Theory

GAIL WATSON
Violin

MARY CLYTICE PHILLIPS,
Children's Piano Department

WILLIAM CLAUDIUS GROTH, A.M.,
German, French, Italian

MARGARET ELEANOR WHITWORTH, B.S.,
Registrar

Aim

The music department of the Ohio Northern University stands ready to give solid, fundamental training in the various branches and to advance its students to a graduation creditable to them and to the University. The school is equally suited to those specializing in music and to those desiring to avail themselves of certain of its advantages, while following some other line of university work.

Equipment

The lower floor is used for teachers' studios, a reception room and a small recital hall. The upper floor is given over entirely to pupils' practice rooms, well lighted, heated and ventilated and equipped with pianos of good make.

Lehr Auditorium, equipped with a grand piano and a new pipe organ, furnishes an excellent place for public recitals and concerts.

DEPARTMENTS AND COURSES

Voice

First Year. A thorough knowledge of breathing and breath control; exercises in breathing and tone placing; in agility and relaxation of muscles; Ferdinand Sieber's eight measure studies and the ten studies, Op. 44-49; simple songs, carefully selected to assist the pupil in conquering his difficulties.

Junior. Exercises in agility, uniting of the tones; the swell, mezzo voce, embellishments; studies in the Masterpieces of Vocalization, which is a graded series of vocal studies selected from the works of all the great masters of singing; songs of suitable grade.

Senior. Advanced exercises in agility covering all kinds of scales and chords in both major and minor; mezzo voce, trill; exercises for strengthening the voice. Advanced work in the Masterpieces of Vocalization.

Throughout the course carefully selected songs and arias from the best American, English, French and Italian writers are used. While songs in foreign tongues are often taught in the language in which composed, special care is taken to give the pupil a clear and intelligible enunciation of the English language.

It is advised that voice pupils study French and Italian.

Pianoforte

Instruction in piano playing involves a special adaptation to the needs of the individual pupil. A minute study of each student's deficiencies and previous habits of work is made and technical studies and pieces best adapted to his needs are given him. Music is a means of intellectual culture and artistic enjoyment; the works of the best masters are therefore employed through all grades.

First Year. Bach, Little Preludes. Two-part Inventions. Kuhlau Clementi Sonatinas. Schools of Velocity by Berens, Czerny, etc. Jensen and Cramer Etudes. Doring Octave Studies. Sonates by Hayden, Clementi, Mozart, Beethoven, etc. Selected Pieces.

Junior. Bach, Three-part Inventions. Preludes and Fugues, Well-tempered Clavichord. Clementi's Gradus ad Parnassum, Czerny, Op. 740. Sonates by Mozart and Beethoven. Compositions by Mendelssohn, Schubert, Grieg, MacDowell, etc.

Senior. Daily Studies, Czerny. Octave Studies, Kullak. Solo works of greater difficulty by Schumann, Chopin, Liszt, Henselt, Moszkowski. Concertos by Mozart, Hummel, Mendelssohn, St. Saens, Grieg, etc.

Courses for Children. The object of these courses is to induce parents to send their children to school at an early age, where they can be under competent instruction from the start, and where they may be assured that no time will be lost in entering upon their advanced work.

The policy of the school throughout is not to adhere strictly to any one so-called "method"; the instructors, after careful study, have selected the best features in various methods, and offer to the students a course of training unexcelled in any conservatory.

It is the endeavor to make the study of piano interesting to the child and to keep practice from becoming mere drudgery. High ideals are set before him and the foundation is laid for a broad musical knowledge.

Organ

The course of study provides for thorough training in preparation for church and concert work. The course has been arranged to give a knowledge of the French schools of organ music through the study of the works of the best composers in this school.

First Year. Stainer's Organ Primer. Bach Chorales. Studies by Merkel and Whiting. Easy Hymns.

Second Year. Rheinberger Trios. Eight Short Preludes and Fugues by Bach. Nilsson Pedal Studies. The easier pieces by Guilmant, Dubois, Batiste, Faulkes, Lemare, and others. Hymns of any difficulty.

Junior. Trios by Bach. Preludes and Fugues by Bach. Chorale Preludes. Sonates by Mendelssohn. Pieces of medium difficulty by Guilmant, Dubois, Gigout, Widor, Lemare, Hollins, etc.

Senior. Preludes and Fugues, Books III. and IV., Bach. Sonates by Guilmant, ierne, Gigout, Thiele, Lemmens.

Violin

First Year. Violin methods of Polanaski, Schraedick and DeBeriot; Etudes of Alard and Kayser; O'Sencik, School of Bowing Technique; Solos by Dancla, Sitt, Bohn, Seity, et cetera.

Junior. Etudes of Blumenstengel, Mazas, Dont; Technique Prepartoire of Sevcik; Concertos of DeBeriot, Viotti, Krentzer; Solos, Obertass of Wienianiski, Andante and Scherzo of David, Ballade et Polonaise of Vieuxtemps, Russian Airs of David.

Senior. Etudes of Krentzer, Fiorillo and Rode; Techniqual Studies of Sevcik and Schraedick; Concertos of Bruch, Spohr, Mendelssohn and Mozart; Sonatas of Handel and Beethoven; Solos, Zigennerfeisen of Sarasate; Marzurka of Musin; Romances of Beethoven; Suite of Sinding.

Theory, History and Ear Training

The Course in Theory is twelve weeks long, classes reciting twice a week. It includes the elements of Accoustics and Tone Quality; a description of the Orchestra and its Instruments; Accent, Rhythm and Tempo; Outlines of Motive Transformation and Thematic Treatment; Explanation and Analysis of Musical Form; Textbook, "Theory of Music" by Louis C. Elson; the text is supplemented by work in other texts and additional analysis of form.

The Course in Ear Training is twenty-four weeks long and is a requirement of all first year harmony students. In this class the pupil is taught to recognize by ear and express in writing, rhythms, intervals, melodies, chords, chord progressions and modulations.

The work is carefully graded from the simplest studies in the major scale to those involving difficult problems in both rhythm and intervals. In general, the course follows the textbook, "Ear Training" by A. E. Heacox.

The Course in Musical History is thirty-six weeks long, beginning with the fall quarter or at other times if a sufficient number desire it. Classes meet twice a week.

The aim of the course is to trace the art of music from its beginnings to its present state. Much time is devoted to the lives of the greatest composers and to a careful study of representative works of each. Due consideration is also given to the development of the larger forms. The text used is "History of Music" by W. S. Pratt and this is supplemented by lectures and collateral reading.

Harmony

The text used in this course is "Lessons in Harmony" by Heacox and Lehmann, supplemented with collateral texts and reference books. The four quarters of work in this suject required for graduation are as follows:

First Quarter. A thorough knowledge of keys, scales, signatures, intervals, and triads gained by frequent oral and written drill. Simple part writing from given basses and sopranos. Playing of cadences at the piano.

Second Quarter. Dominant and supertonic seventh chords. Modulation begun. Dominant ninth. Other chords of the seventh. Writing of original hymn tunes.

Third Quarter. Modulation to nearly related keys. Advanced studies in secondary seventh chords. Chromatically altered chords.

Fourth Quarter. Modulation to remote keys. Enharmonic changes. Suspensions, retardations, appogiaturas, anticipation, passing tone, embellishment, pedal point.

Counterpoint

Simple Counterpoint in two parts, in all species and combinations. Three part counterpoint in first, second and third species. Completion of three part Counterpoint; four part Counterpoint; Imitation. The textbook used in Counterpoint is "Simple Counterpoint" by F. J. Lehmann. Prerequisite: Harmony I., II., III., IV.

Harmonic Analysis

The one quarter of work in this subject required for graduation is devoted to a study of the text "Hormonic Analysis" by F. J. Lehman.

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GRADUATION

To finish any of the courses (Voice, Piano or Organ) with credit usually requires four years of work, the exact time depending upon the talent and industry of the pupil. No pupil is allowed to finish with fewer than two lessons a week during the senior year. A diploma is awarded upon the satisfactory performance of a public recital and the completion of work indicated in the following outline:

Voice. Harmony, 3 quarters; Musical History, 3 quarters; Theory, 1 quarter; Ear-Training, 2 quarters; enough Piano to play accomplishments.

Piano. Harmony, 4 quarters; Harmonic Analysis, 1 quarter; Counterpoint, 1 quarter; Musical History, 3 quarters; Theory, 1 quarter; Ear-Training, 2 quarters; Voice or Violin, 3 quarters.

Organ. Harmony, 4 quarters; Harmonic Analysis, 1 quarter; Counterpoint, 1 quarter; History of Music, 3 quarters; Theory, 1 quarter; Ear-Training, 2 quarters; 3 quarters Voice or Violin; creditable knowledge of Piano.

Violin. Harmony, 4 quarters; Harmonic Analysis, 1 quarter; Counterpoint, 1 quarter; History of Music, 3 quarters; Theory, 1 quarter; Ear-Training, 2 quarters; Piano, 3 quarters.

Post Graduate Work is in all departments.

TEACHERS' COURSE

This course is especially for those pupils who are not gifted as performers but are qualified to teach. Those completing the Teachers' Course are not required to give a public graduating recital but will render a suitable program at one of the Tuesday evening recitals.

The theoretical subjects for this course are the same as for the diploma course, and in addition the student will be required to take nine hours pedagogical work.

PUBLIC SCHOOL MUSIC

The courses in Public School Methods and Supervision are offered in the Summer Quarter only. Classes recite daily.

Public School Music I. (First half of term.) A thorough knowledge of music fundamentals and sight singing. Outlines for work in the first four grades and in the ungraded school.

Public School Music II. (Second half of term.) Prerequisite: Public School Music I., or its equivalent. Review of musical essentials and further drill in scales, keys, and sight-singing. Ear training. Outlines for advanced grades. High School Music. Special attention is given to the treatment of the child voice at all ages and to drilling and conducting choruses.

Graduation Requirements. No pupil will be graduated from this department unless he has a high school education or its equivalent, can sing in tune, can read ordinary music at sight and has a fair knowledge of Piano.

In addition to the above essentials the following studies are required:

Voice, 2 quarters; Harmony, 2 quarters; History of Education, I. and II.; Paidology, 1 quarter; Observation I.; Methods I., or Classroom Management; History of Music I. and II.; Grade outline work, Organization and Supervision, 2 summer terms. (6 weeks each.)

The course may be completed during summer quarters only. For such studies in the College of Education as are not offered in summer work, suitable substitutions will be made.

RECITALS

Pupils' Recitals. Pupils' recitals are held at seven o'clock every Tuesday evening to enable the student to gain confidence and exhibit the progress he has made.

Faculty Recitals. At intervals the faculty of the College of Music presents a program of such nature as to further the education and standards of the students.

Artists' Recitals. By means of these recitals the pupils come in contact with the great musical personalities and hear the best music well performed.

MUSICAL ORGANIZATIONS

Choral Society. The Choral Society is made up of both university students and townspeople and is open to all who love good music. The society meets every Monday evening that school is in session during the first three quarters. The fees charged are nominal. The society aims to give two public performances each year.

Men's Glee Club. A glee club of twenty voices has been organized, for the purpose of giving home concerts and touring the state each year.

Girls' Glee Club. This club is organized to learn the best in choral works written for female voices, and to give a concert each year.

Orchestra. A large orchestra is being organized to take up standard works of the great composers, and to play at the concerts of the Choral Society.

Band. A splendid military band is maintained, affording an opportunity for practice to students playing a brass or reed instrument.

Choirs. Choir work is of marked value in a musical education. All advanced voice students should take advantage of its benefits.

The churches of the town welcome students to their choirs.

RUDIMENTS AND SIGHT SINGING

A course in Rudiments and Sight Singing is given twice a year,—in the winter quarter and in the summer quarter. The class meets twice a week and is free to all university students.

TUITION

Voice, Piano, Organ or Violin, quarter of twelve weeks, two lessons a week	$22.00
One lesson a week	14.00
For either of the six-weeks summer terms, Voice, Piano, etc., two lessons a week	14.00
One lesson a week	8.00

Children's Department

Piano, quarter of twelve weeks, two lessons a week	$10.00
One lesson a week	6.00

Class Lessons

Harmony, per quarter	$ 7.50
Counterpoint, per quarter	7.50
History of Music, per quarter	5.00
Theory of Music, per quarter	5.00
Ear Training, per quarter	5.00
Public School Music, per quarter	14.00
Public School Music, per six weeks term	8.00

EXPENSES

Piano rent, one hour a day, per quarter	$ 2.50
Rent of Pipe Organ for practice, one hour a day per quarter	12.00

These rates are for lessons by the quarter only. Single lessons are more.

Pupils registering within the quarter are charged for one lesson more than is given them.

SCHOLARSHIP

The university is in posession of two scholarships amounting to $150 a year each. These scholarships are the gifts of a man anxious to help poor, yet worthy students, in attaining to well trained lives. The terms of the sholarships require that the student take from one-third to one-half literary work, the rest music; that the award be made by the President of the University and the Dean of the College of Music. The student may be either a young man or a young women and the fund will be found sufficient to pay the tuition and a little more. The preference of the donor is for students who expect to become teachers of music.

GRADUATION FEES

Diplomas are awarded to students completing recital courses in Voice, Piano, Organ or Violin. The graduation fee is $5.00.

Certificates are awarded to students completing the Teachers' Course in any of the above subjects, and to those completing the course in Public School Music. The graduation fee in these courses is $2.00.

REGULATIONS

1. All tuition payable in advance.

2. Lessons lost with reasonable excuse will be made up where pupil has given teacher twenty-four hours notice of intended absence.

3. Credit will be given for work done elsewhere, and the pupil will be permitted to enter the grade for which he is prepared.

4. Practice rooms in the Music Building are provided for non-resident pupils.

REFUNDING

See page 23 of this catalogue.

SCHOOL OF EXPRESSION

FACULTY

ALBERT EDWIN SMITH, D.D., Ph.D.,
President

MAE DEMING MCCOPPIN, O.M.,
Dean

MARGARET ELEANOR WHITWORTH, B.S.,
Registrar

Aim

The aim of this school is to prepare men and women for fuller service in public speaking, whether as teachers, readers, lecturers, preachers or lawyers, and also to meet the need of those who realize the general cultural value of the study of Expression. For this reason, expression is taught, not by imitation, but by the mastery of definite laws in such a way as to bring out the individuality of the student.

Courses

The courses may be grouped under two general classes.

I. General Culture—for those desiring to meet the demands of today's social intercourse. Sight Reading, Mythology, Voice Training, Breathing, Physical Culture, Literary Interpretation of Prose and Poetry, Extempore Speaking, Dramatic Training, Pantomime, Gesture and 45 Private Lessons.

II. Professional Culture—for Teachers, Platform Readers, Public Speakers, Clergymen, Lawyers, in fact all who aim to profit by any form of Speech Arts. This course includes all subjects under the first course and Theory in Preaching and Teaching, School Management, Composition and Delivery of Orations, Forensic Oratory, Argumentation, Debate, Vocal Physiology, Correction of the Faults of Speech, Plot, Character Study and interpretation of Merchant of Venice, As You Like It and Hamlet, with preparation and presentation of scenes for criticism, Platform Programs, Normal Work, in all departments and 90 Private Lessons.

Photoplayers Course. A special course is now being arranged for those desiring to enter this new field of endeavor. Motion pictures are still in their infancy, yet their popularity among the masses, their general acceptance in our institutions of learning, the mechanical inventions, research and large financial investments give promise of a lusty growth. There is a great future for those who enter the field early. To attain a reasonable degree of perfection in the profession, a rigorous course must be followed and those not suited for it will be so informed. For further information address the Dean.

Special classes will be formed in any of the courses for those desiring training along a particular line and not having the time or means to complete a course. Private lessons may be had in any subject by students in other departments upon making arrangements with the Dean.

Advanced Standing

Liberal credits will be allowed for work done in other schools. Students may enter at any time and be placed according to their development.

Certificates and Diplomas

Those satisfactorily completing the One Year General Culture Course will be granted a certificate to that effect. Those satisfactorily completing the Two Year Professional Course will be granted a Diploma of Graduation by the University.

EXPENSES

Tuition

Class Lessons, per quarter	$12.00
Physical Culture, per quarter	5.00
Private Lessons, per quarter (15 lessons)	12.00
Class and Private Lessons and Physical Culture	25.00
Class Lesson, single subject, per quarter	6.00
Private lesson, single lesson	1.00
Fencing, per quarter, (12 lessons)	6.00
Textbooks, stationery, et cetera, per year, about	5.00

Refunding

See page 23 of this catalogue.

DEPARTMENT OF MILITARY INSTRUCTION

FACULTY

Albert Edwin Smith, D.D., Ph.D.,
President

Capt. Benjamin Alvin Ball, U.S.A.,
Commandant
Professor of Military Science and Tactics

Under General Orders No. 49, War Department, September 20th, 1916, a Senior Reserve Officers Training Corps is established at the Ohio Northern University.

The arms and equipment are the same as those issued to the regular army. The rifles used will be the U.S. Magazine Rifle, model of 1917, caliber 30. Target practice will be held first with the sub-caliber rifle 22. Target practice will also be had with the 45 Colt Automatic Pistol.

Organization

The Cadet Battalion consists of the following: One Cadet Major, one First Lieutenant Cadet Adjutant, one First Lieutenant Cadet Quartermaster, one First Lieutenant Cadet Band Leader, and one Cadet Sergeant Major. Each company consists of:

1 Captain, 1 first Lieutenant, 1 Second Lieutenant, 1 First Sergeant, 1 Supply Sergeant, 4 Sergeants, 6 Corporals, 1 Company Clerk, 42 Privates.

Appointments

The cadet officers are appointed by the Professor of Military Science and Tactics after his recommendations have been approved by the President and the Faculty Military Committee. The non-commissioned officers are recommended by their various company commanders and appointed by the Professor of Military Science and Tactics.

Officers who fail to maintain their companies in satisfactory condition will be promptly reduced.

Instruction

The cadets are drilled in the school of the soldier, company and battalion and in the ceremonies, besides tactical problems, map-reading topography, sand table, visual signaling, target practice, army paper work, military law and procedure and in every detail with which a commander of troops is supposed to be familiar.

The moving picture machine will play a large part in helping to visualize the technical instruction.

After two years of military training cadets will be eligible to apply for commutation of subsistence amounting to about $12 a month.

The regular course requires three hours a week military training. To obtain the commutation of subsistence the cadet must take five hours a week for the last two years. At the end of his collegiate course the cadet is eligible for appointment in the reserve corps of the U. S. Army.

Text Books

The following text-books furnished by the War Department are designated for the course: Infantry Drill Regulations, Manual of Interior Guard Duty, Small Arms Firing Regulations, Manual of Physical Training, Manual of Court Martial, Quartermaster's Manual, Army Regulations; various blank forms also are furnished.

Uniform

The uniforms are the same as those used by the U. S. Army, and will be furnished free to the student. Extra parts of the uniform may be purchased at cost from the Zone Quartermaster.

Summer Camps

Every year, immediately at the close of the third quarter, a summer camp will be held for the purpose of practical instruction in field work. The U. S. Government meets the student's expenses at these camps, including transportation and extra uniforms.

Aim

It is the final purpose of the course to make Reserve Officers for the army, so that if another emergency should arise the United States could immediately put in the field an ample supply of well-trained men able to take command of troops.

ATHLETIC DEPARTMENT

THOMAS J. SMULL,
President

ELIJAH E. LONG,
Secretary

LENIX C. SLEESMAN,
Graduate Manager

Physical Director, (men)

CARRIE A. WILSON,
Physical Director, (women)

CAPT. BENJ. A. BALL,
Military Athletics

Ohio Northern became a member of "Ohio Conference," better known as the "Big Six" of Ohio, on October 13, 1916.

Athletic Coaching Courses

Designed for those intending to teach and coach. A quarter to each sport, all sports in season.

Football—Theoretical: Rules, offense and defense; generalship and strategy. Practical: Training, conditioning, and players' equipment; punting, drop kicking, place kicking, kick off, forward passing; tackling dummy and charging sled; special drills for linemen, ends, and backs; following the ball, interference, team work; fundamental plays, freak plays, signal systems. Lectures; practical work.

Basketball.—Coaching; passing; goal throwing; dribbling; team play; condition; practical work.

Baseball—Batting; base running; fielding each position; team work and coaching; rules; physical condition; lectures; practical work.

Physical Training for Men

This work is organized for the development of the physical man, with a view to keeping him in good, sound health and at the same time teaching him simplified methods which he may be able to use elsewhere, without costly apparatus.

I. Exercises. Floor drills; calisthenics, wands; dumbbells; Indian clubs; chinning apparatus and horizontal bar work; jumping and vaulting; medicine ball drills; rowing machine; chest weight machine; swinging rings.

II. Advanced Gym. (Elective). Parallel bars; horizontal bar; Milo adjustable bar bed; boxing, wrestling and tumbling; bag punching; horse vaulting.

Physical Training for Women

Lighter, yet similar, work is arranged for women, with a view to develop endurance, agility and grace.

Fee for Physical Training $1.00 per quarter.

HONORARY DEGREES, 1917

Chapman, W. S.	(D.D.)	Norwalk, O.
Elsworth, E. E.	(D.D.)	Lancaster, O.
Johnson, Andrew	(D.D.)	Wilmore, Ky.
Routan, Frank C.	(D.Sc.)	Chicago, Ill.
Summers, H. V.	(B.S.)	Columbus, O.
Swank, Jesse	(D.D.)	Marion, O.

GRADUATES, 1917

College of Liberal Arts

Abt, Pauline	(A.B.)	Ada
Bartlette, Thomas B.	(A.B.)	Nashville, Tenn.
Broede, Ralph	(A.B.)	Bloomville
Brooks, Leslie M.	(A.B.)	East Liverpool
Freeman, Harold B.	(A.B.)	Ada
Kline, Joyce	(A.B.)	Westminster
Smith, Beatrice	(A.B.)	Ada
Wintringham, Charles E.	(A.B.)	Sidney
Wright, Robert	(A.B.)	Ada
Daily, George B.	(B.S.)	Youngstown
Dille, Margaret	(B.S.)	Arvoda, Colo.
Eicher, Homer	(B.S.)	Mill Run, Pa.
Pigossi, Dante	(B.S.)	Greenup, Pa.
Prescott, F. A.	(B.A.)	Elizabeth, Pa.
Ragner, Bernard	(B.S.)	McKeesport, Pa.
Seamands, Earl A.	(B.S.)	Tuscon, Ariz.
Shepherd, Arthur C.	(B.S.)	Barnesville
Stout, Alice	(B.S.)	Ada
Vesper, Carl	(B.S.)	Mendon
Wenn, Z. S.	(B.S.)	Shia, China

College of Education

Beeman, W. E.	(B.S. in Ed.)	Ada
Bevan, Roland	(B.S. in Ed.)	Caldwell
Blackhurst, Mary Ellen	(B.S. in Ed.)	Midland, Mich.
Curry, Homer P.	(B.S. in Ed.)	Glenford
Dentel, LeRoy J.	(B.S. in Ed.)	Payne
Ewing, Helen	(B.S. in Ed.)	Ada
Harshman, Ralph G.	(B.S. in Ed.)	Ada
Hatcher, Charles T.	(B.S. in Ed.)	Belmont
Johnson, Harlan W.	(B.S. in Ed.)	McConnelsville
Livingston, Ralph	(B.S. in Ed.)	Carey
Mahan, Leota	(B.S. in Ed.)	Ada
Mason, George Clyde	(B.S. in Ed.)	Ney
McDowell, Marguerite	(B.S. in Ed.)	Ada
Miller, Harriet	(B.S. in Ed.)	Ada

Montgomery, Josephine	(B.S. in Ed.)	Wapakoneta
Motter, Paul O.	(B.S. in Ed.)	Ada
Taubken, Harry	(B.S. in Ed.)	Botkins
Vannorsdall, Harry H.	(B.S. in Ed.)	Jeffersonville
Walker, Leo A.	(B.S. in Ed.)	Buckland
Williams, Thomas W.	(B.S. in Ed.)	Versailles
Evans, Mary	(Grad.Ped.)	Gomer
Gossard, Crystal	(Grad.Ped.)	Ada
Hall, Dorothy	(Grad.Ped.)	Canton
Henderson, Jessie	(Grad.Ped.)	Iberia
Jones, Nina	(Grad.Ped.)	Benton Ridge
Mahon, Isabel	(Grad.Ped.)	Dunkirk
Poling, Eva	(Grad.Ped.)	Ada
Smith, Mildred	(Grad.Ped.)	Shiloh
Solomon, Hazel	(Grad.Ped.)	Ada
Sproul, Vera	(Grad.Ped.)	Ada
Stopher, Thelma	(Grad.Ped.)	Ada
Strohecker, Mary	(Grad.Ped.)	Enon Valley, Pa.
Waugh, N. D.	(Grad.Ped.)	Mannington, W. Va.
Wells, Mary	(Grad.Ped.)	Ada

College of Engineering

Cabellero, J.	(C.E.)	Santiago, Chili
Harris, George	(C.E.)	Degraff
Manescal, C. H.	(C.E.)	Brazil
Masses, Octavio	(C.E.)	Cuba
Papavangelo, C. B.	(C.E.)	Chicago, Ill.
Segui, J.	(C.E.)	Brazil
Travares, J.	(C.E.)	Brazil
Bayne, George	(B.S. in C.E.)	Medina, N. Y.
Birdsall, A.	(B.S. in C.E.)	Hackensack, N. J.
Burns, Earl	(B.S. in C.E.)	Calla
Cooke, Harry A.	(B.S. in C.E.)	Englewood, N. J.
Dutch, William	(B.S. in C.E.)	Elyria
Hakes, Harold Z.	(B.S. in C.E.)	Fostoria
Hartman, L. V.	(B.S. in C.E.)	Waukeegan Lake, Ill.
Hine, Edgar D.	(B.S. in C.E.)	Hamilton
Hine, J. H.	(B.S. in C.E.)	Hamilton
Honsinger, F. T.	(B.S. in C.E.)	Little Falls, N. Y.
Kapp, C. R.	(B.S. in C.E.)	Summerville
Kerr, E. M.	(B.S. in C.E.)	Mason
Knapper, Harold C.	(B.S. in C.E.)	Collins
Leighton, F. C.	(B.S. in C.E.)	Spring Lake, N. J.
Smith, L. L.	(B.S. in C.E.)	Cherry Creek, N. Y.
Wright, Foster, F.	(B.S. in C.E.)	Granville
Barros, E. S.	(E.E.)	S. Paulo, Brazil
Fereirra, R. Q.	(E.E.)	Tramagal, Portugal
Guimaraes, A.	(E.E.)	Brazil

Monici, Stephen	(E.E.)	S. Paulo, Brazil
Palaez, Earnest	(E.E.)	Wedillen, Columbia
Sousa, J. T.	(E.E.)	Brazil
Aimutis, F. J.	(B.S. in E.E.)	New Haven, Conn.
Campbell, I. S.	(B.S. in E.E.)	Arlington, N. Y.
Manusov, Philip	(B.S. in E.E.)	Mapelwood, N. Y.
Moliter, F. W.	(B.S. in E.E.)	Broadalbin, N. Y.
Peoples, Warren L.	(B.S. in E.E.)	Bolivar
Speece, Rex	(B.S. in E.E.)	Quincy
Wickerham, W. W.	(B.S. in E.E.)	McComb
Fyke, James C.	(M.E.)	West Unity
Gonsalves, Dario R.	(M.E.)	Brazil
Briggs, R. W.	(B.S. in M.E.)	Frankfort
Francis, Oscar	(B.S. in M.E.)	Elida
Ginsbourg, Leo	(B.S. in M.E.)	Brooklyn, N. Y.
Grove, G. N.	(B.S. in M.E.)	Cold Water, Mich.
Karlson, John T.	(B.S. in M.E.)	Orange, Mass.
McCormick, John H.	(B.S. in M.E.)	Coraopolis, Pa.
McGuire, John L.	(B.S. in M.E.)	Latroles, Pa.
Miller, Raymond G.	(B.S. in M.E.)	Morristown, N. Y.
Moore, Meade	(B.S. in M.E.)	Prospect, Pa.
Norrick, H. E.	(B.S. in M.E.)	West Park
Rew, C. J.	(B.S. in M.E.)	Bemas Point, N. Y.
Smith, C. A.	(B.S. in M.E.)	Monmouth, Ill.
Walters, M. V.	(B.S. in M.E.)	Palacios, Tex.
Wright, L. R.	(B.S. in M.E.)	N. Girard, Pa.
Brownlee, J. L.	(B.S. in Chem.E.)	Ada

College of Law

Connaughton, F. P.	(LL.B.)	Wapakoneta
Crabbe, H. H.	(LL.B.)	Ada
Dormand, W. L.	(LL.B.)	Spring Valley, N. Y.
Harbour, Hershell R.	(LL.B.)	Quincy
McMasters, E. B.	(LL.B.)	Steubenville
Mills, Leo	(LL.B.)	Bellbrook
Palombo, Charles W.	(LL.B.)	Waterbury, Conn.
Putnam, R. B.	(LL.B.)	Millersburg
Ringer, Strawder A.	(LL.B.)	Ada
Seymour, Joseph	(LL.B.)	Medina
Shaw, Marvin R.	(LL.B.)	Bradford, Pa.
Shepler, J. B.	(LL.B.)	Coshocton
Singer, E. G.	(LL.B.)	Dixon
Tilton, E. B.	(LL.B.)	Steubenville
Wolfe, Orin	(LL.B.)	New Berlin

College of Pharmacy

Alonzo, Anthony	(Ph.G.)	Buena, Cuba
Baker, Bryan	(Ph.G.)	Celina

Bealar, E. E.	(Ph.G.)	Orville
Black, M. Ray	(Ph.G.)	Perry
Buddenhagen, William R.	(Ph.G.)	Sandusky
Camm, Harry E.	(Ph.G.)	Marion
Carpenter, L. H.	(Ph.G.)	Jamestown
Clutter, Alberto B.	(Ph.G.)	Ada
Clutter, Guillermo P.	(Ph.G.)	Ada
Creps, John H.	(Ph.G.)	Lima
Desdin, L. Jose	(Ph.G.)	Cuba
DeWeese, Paul L.	(Ph.G.)	Lima
Diehl, R. E.	(Ph.G.)	Sandusky
Fast, Norval B.	(Ph.G.)	St. Marys
Fockler, Serge S.	(Ph.G.)	Lima
Fowler, Clarence W.	(Ph.G.)	Flushing
Fuste, Alexander F.	(Ph.G.)	Cuba
Garcia, Julius M.	(Ph.G.)	Halienda, Mex.
Gerszenyi, Peter	(Ph.G.)	Cleveland
Gomez, Bernardio	(Ph.G.)	Cuba
Grenneman, G. R.	(Ph.G.)	
Hoyne, George A.	(Ph.G.)	Celina
Henry, Herman B.	(Ph.G.)	West Mansfield
Johnson, Lloyd M.	(Ph.G.)	Nappanes, Ind.
Landers, Floyd H.	(Ph.G.)	Whitney, N. Y.
Lavers, Joseph A.	(Ph.G.)	Cuba
Lloyd, Harry	(Ph.G.)	Jackson
Lyne, Charles C.	(Ph.G.)	Stockport
Mathews, Carey H.	(Ph.G.)	Van Wert
Mayberry, Kline D.	(Ph.G.)	Elyria
McCartney, LeRoy W.	(Ph.G.)	Chung Tung, China
McCleery, Charles D.	(Ph.G.)	Lancaster
McDowell, Vance	(Ph.G.)	Orville
McIntyre, F. A.	(Ph.G.)	S. Zanesville
McIntyre, George	(Ph.G.)	Crestline
Montgomery, J. M.	(Ph.G.)	Huntsville
Mossiman, Raymond W.	(Ph.G.)	Gallipolis
Mowiser, James B.	(Ph.G.)	Orville
Ottermat, Oscar O.	(Ph.G.)	Fremont
Phelan, William J.	(Ph.G.)	Ambridge, Pa.
Purvis, William R.	(Ph.G.)	Payne
Ramos, A. V.	(Ph.G.)	Tuguasco, Cuba
Robison, W. Wendon	(Ph.G.)	Savannah
Rockell, Frank W.	(Ph.G.)	Hillsboro
Schlosser, John C.	(Ph.G.)	Defiance
Seibert, George W.	(Ph.G.)	Liberty, N. Y.
Seigley, Frank M.	(Ph.G.)	Orville
Selser, Leslie G.	(Ph.G.)	Akron
Shaw, R. Raymond	(Ph.G.)	Cherry Tree, Pa.
Smith, Frank A.	(Ph.G.)	Antwerp

Spoon, Byron C.	(Ph.G.)	Forest
Steiner, Homer	(Ph.G.)	Pandora
Stultz, Jesse H.	(Ph.G.)	Roanoke, Va.
Thomas, John W.	(Ph.G.)	Martinsburg, W. Va.
Thompson, Earl A.	(Ph.G.)	Lima
Winkler, John F.	(Ph.G.)	Apple Creek
Yarnell, Clair W.	(Ph.G.)	Napoleon

College of Commerce

Balyeat, Harold G.	(B.C.S.)	Mansfield
Hodge, Paul Z.	(B.C.S.)	Youngstown
Hull, D'Vuille	(B.C.S.)	Spring Hope, Pa.
Livingston, Hazel	(B.C.S.)	Galion
Morrison, Don L.	(B.C.S.)	Rawson
Spencer, J. Lowell	(B.C.S.)	Waveland, Ind.
Weber, Robert C.	(B.C.S.)	Dayton
Feight, Lafa A.	(Grad.Sten.)	Galion
Fitzpatrick, Viola	(Grad.Sten.)	Ada
Meyer, Irma R.	(Grad.Sten.)	Piqua
Tillner, Beda C.	(Grad.Sten.)	Bessemer, Mich.
Bindley, Burdette E.	(Grad.C.S.)	Marion
Bagdonas, J. J.	(Grad.C.S.)	Chicago
Daubenspeck, Roy	(Grad.C.S.)	Mullens, W. Va.
Fritsch, J. Herman	(Grad.C.S.)	Piqua
Imbody, W. H.	(Grad.C.S.)	Larue
Jenkins, Raymond M.	(Grad.C.S.)	Victoriade, Cuba
Olson, Florence E.	(Grad.C.S.)	Ironwood, Mich.
Nolze, Harmon R.	(Grad.C.S.)	Delaware
Rowlands, Fred W.	(Grad.C.S.)	Mansfield
Trostle, Wayne M.	(Grad.C.S.)	Pandora
Witmeyer, Howard Y.	(Grad.C.S.)	Lebanon, Pa.
Yost, R. L.	(Grad.C.S.)	Fairmont, Pa.
Harshman, Eva L.	(Grad.C.S.)	Ada

College of Agriculture

Phelan, William C.	(B.S. in Agr.)	Westfield, Mass.
Dailey, Deane	(Grad.Agr.)	McClure
Dodson, Kenneth E.	(Grad.Agr.)	Springfield
Odbert, Ivan H.	(Grad.Agr.)	Monessen, Pa.
Weaver, W. C.	(Grad.Agr.)	Cincinnati
Werst, Arthur L.	(Grad.Agr.)	Sidney

College of Music

Betz, Lela	(Piano)	Ada
Conklin, Mae	(Piano)	Forest
Garmon, Lavonne	(Piano)	Dunkirk
Warren, Ethel	(Piano)	Ada
Wickerham, Hazel B.	(Piano)	Williamstown

Huber, Claire	(Voice)	Ada
Sheller, Elsie	(Voice)	Ada
Wickerham, Hazel B.	(Voice)	Williamstown
Pugh, Ethel	(Pub.Sch.Mus.)	Fostoria

College of Expression

Burnett, Elizabeth M.	(Grad.Exp.)	Forest
Chambers, Audrey C.	(Grad.Exp.)	Carey
Coventry, Helen F.	(Grad.Exp.)	Bellefontaine
Parks, Genevieve A.	(Grad.Exp.)	Willshire

HONORARY DEGREES, 1918

Groth, William C.	(A.M.)	Ada
Parlette, Ralph	(A.B. Litt.D.)	Chicago, Ill.
Smith, William A.	(D.D.)	Fostoria
Snader, David L.	(M.S.)	Clarksville, Tenn.

GRADUATES, 1918

College of Liberal Arts

Ames, Alma Kathryne	(A.B.)	Ada
Mueller, Erna	(A.B.)	Hamilton, Canada
Mueller, Isolde	(A.B.)	Hamilton, Canada
Ridenour, Florence	(A.B.)	Lafayette
Jamison, Laura	(B.S.)	Ada
Johnson, Dean B.	(B.S.)	Freeport
Mertz, Gertrude	(B.S.)	Ada
Porritt, Donald Charles	(B.S.)	Pontiac
Smith, Clarence Joseph	(B.S.)	Elyria

College of Education

Ailes, Sidney	(B.S. in Ed.)	Jackson Centre
Armstrong, George B. T.	(B.S. in Ed.)	Sycamore
Balmer, Joseph Edwin	(B.S. in Ed.)	Pittsburgh, Pa.
Getz, Ralph H.	(B.S. in Ed.)	Dola
Harrod, Jesse Raymond	(B.S. in Ed.)	Harrod
Harshman, Anna Talmage	(B.S. in Ed.)	Ada
Kline, Joyce	(B.S. in Ed.)	Westminster
Longnecker, Elsie	(B.S. in Ed.)	Ada
Ross, Leila Eleanor	(B.S. in Ed.)	Montrose, Colo.
Sanders, Colby Clifton	(B.S. in Ed.)	Clifton
Taylor, Cyrus Oscar	(B.S. in Ed.)	North Lewisburg
Thrasher, Florence H.	(B.S. in Ed.)	Oakwood
Weaver, Loring L.	(B.S. in Ed.)	Westminster
Younger, William S.	(B.S. in Ed.)	Celina
Allcroft, Vivian Tobias	(Grad.Ped.)	Ada
Belston, Ethel Mae	(Grad.Ped.)	Lima

Edwards, Pauline L.	(Grad.Ped.)	Ada
Goddard, Gertrude Anna	(Grad.Ped.)	Cutler
Herr, Opal	(Grad.Ped.)	Ada
Huggett, Irene	(Grad.Ped.)	Ada
Kinney, Imogene P.	(Grad.Ped.)	Mt. Victory
Kollefrath, Alice A.	(Grad.Ped.)	Marysville
McCrea, Jennie E.	(Grad.Ped.)	Sedalia
Parrette, Edna Iola	(Grad.Ped.)	Continental
Pees, Mahala Jane	(Grad.Ped.)	Dola
Porter, Daisy	(Grad.Ped.)	Ada
Ritchie, Doris Walters	(Grad.Ped.)	Oakland
Severe, Carrie	(Grad.Ped.)	Vanatta
Shanks, Francis Lenore	(Grad.Ped.)	Ada
Stover, Bess	(Grad.Ped.)	Lima
Thompson, Helen Marie	(Grad.Ped.)	Ada
Wolfrom, Mabel V.	(Grad.Ped.)	Ada

College of Engineering

Guimaraes, Antonio	(C.E.)	Rio Janeiro, Brazil
Moehring, Don C.	(C.E.)	Dayton
Bierman, Linn Carl	(B.S. in C.E.)	Harrisburg, Pa.
Crosta, Alfred A.	(B.S. in C. E.)	Newark
Dantan, Richardo	(B.S. in C.E.)	Mexico City
Fritz, Charles E.	(B.S. in C.E.)	Liberty N. Y.
Fisher, E. Cletus	(B.S. in C.E.)	Coshocton
Gilley, Jesse Garrett	(B.S. in C.E.)	Advance, Ky.
Ingle, Carl W.	(B.S. in C.E.)	Bryan
Kowaless, John	(B.S. in C.E.)	Duquesne, Pa.
Luke, K. C.	(B.S. in C.E.)	Hong Kong, China
Manion, John S.	(B.S. in C.E.)	Avon, Conn.
Moehring, Don C.	(B.S. in C.E.)	Dayton
Scott, C. Esbai	(B.S. in C.E.)	Wellsburg, W. Va.
Sprinkle, Rexford M.	(B.S. in C.E.)	Preble
Wong, W. T.	(B.S. in C.E.)	Hong Kong, China
Brownlee, James L.	(B.S. in M.E.)	Ada
Dohmen, John Joseph	(B.S. in M.E.)	Wellsburg, W. Va.
Englehardt, William Curtis	(B.S. in M.E.)	Howard
Rock, Leon F.	(B.S. in M.E.)	Middleville, Mich.
Tornes, J. R.	(B.S. in M.E.)	Manzanillo, Cuba
Tiefel, John C.	(B.S. in M.E.)	Niles
Tiefel, Myron R.	(B.S. in M.E.)	Niles
Alholm, August	(B.S. in E.E.)	Marquette, Mich.
Bayle, Russell, M.	(B.S. in E.E.)	Ambridge, Pa.
Ferlic, Andrew J.	(B.S. in E.E.)	Traveskyn, Pa.
Hawe, J. Eldon	(B.S. in E.E.)	Dubuque, Ia.
Kadel, Lewis C.	(B.S. in E.E.)	Port Jervis, N. Y.
Lopes, Darlindo	(B.S. in E.E.)	Para, Brazil
Rudolph, Harold L.	(B.S. in E.E.)	Bartlett

Ward, William Edward	(B.S. in E.E.)	Olean, N. Y.
Porter, Paul George	(B.S. in Chem. Eng.)	Niles

College of Law

Allen, F. Leroy	(LL.B.)	Richwood
Bevan, Lorenzo D.	(LL.B.)	Caldwell
Carlyle, Homer E.	(LL.B.)	Youngstown
Edwards, J. Parker	(LL.B.)	Parnassus, Pa.
Heminger, Ralph L.	(LL.B.)	Prairie Depot
Irish, William C.	(LL.B.)	Newark
Neal, J. Howard	(LL.B.)	Springfield
Russell, Alva J.	(LL.B.)	Arlington

College of Commerce

Smith, Ervin S.	(B.S.C.)	Ada
Colley, Frank M.	(Grad.Sten.)	Piqua
Hall, Marguerite	(Grad.Sten.)	Springboro, Pa.
Knapp, Geraldine	(Grad.Sten.)	Girard
Smith, Ervin S.	(Grad.Sten.)	Ada
Sourwine, Iva C.	(Grad.Sten.)	Milan
Lathrop, Roland R.	(Grad.C.S.)	Cincinnati
Mielke, Earnest C.	(Grad.C.S.)	Sandusky
Morris, Theo. V.	(Grad.C.S.)	Dayton
Pena, Jose C.	(Grad.C.S.)	Campeche, Mex.
Pollock, Wilbur	(Grad.C.S.)	Morristown, N. Y.
Hoffman, Cecelia	(Grad. Bk. & Sten.)	Toledo
Moser, Victor	(Grad. Bk. & Sten.)	Dalton
Perkins, Frank W.	(Grad. Bk. & Sten.)	New Haven, Conn.

College of Pharmacy

Bookwalter, Ray Harold	(Ph.G.)	Huntsville
Brito, Maria V. de J.	(Ph.G.)	Caibabelagua, Cuba
Cunningham, Dale L.	(Ph.G.)	Toledo
Del Rio, Francisco L.	(Ph.G.)	Placitas, Cuba
Field, Mabel G.	(Ph.G.)	Ft. Wayne, Ind.
Finney, B. Waldo	(Ph.G.)	
Fryer, Melville O.	(Ph.G.)	Spencerville
Green, William J.	(Ph.G.)	Mt. Gilead
Hamsher, Harry L.	(Ph.G.)	DeGraff
Heckler, H. Grant	(Ph.G.)	Napoleon
Lalondri, A. F.	(Ph.G.)	Y. Sta. Clara, Cuba
Lantz, Clay D.	(Ph.G.)	Portsmouth
Lewis, Bruce B.	(Ph.G.)	Libson
Loranger, Raoul F.	(Ph.G.)	Lima
Motz, Hubert W.	(Ph.G.)	Cuyahoga Falls
Wall, Marian	(Ph.G.)	Hamersville
Ydoyaga, Rafael Juarista	(Ph.G.)	Jaguey Grande, Cuba

College of Music

Cook, Nina -------------------(Voice)---------------- Ashtabula
Russell, Lucile ----------------(Voice)------------------------ Ada
Brito, Marguerite --------------(Piano)--------- Caibalelagua, Cuba

College of Expression

Hamilton, Ruth ---------------(Grad.Exp.)----------------- Lima
Knapp, Geraldine --------------(Grad.Exp.)--------------- Girard

REGISTER OF UNDER-GRADUATES

(Spring Quarter, March 6, 1917—Winter Quarter 1919, Inclusive)

COLLEGE OF LIBERAL ARTS

Ames, Alma K.--------Hardin, O.
Allinger, J. Herman----Logan, O.
Augsburger, Donald L.--Allen, O.
Allcroft, Vivian Tobias-Hardin, O.
Bennett, C. D.-------Auglaize, O.
Benner, Jas.-----------Hardin, O.
Barker, Rachel---------Union, O.
Blough, Homer C.---Somerset, Pa.
Bowers, Aleta---------Hardin, O.
Bushong, Clayton----Hancock, O.
Beyer, Forrest----------Perry, O.
Bixel, Russell-----------Allen, O.
Basinger, Byron-------Putnam, O.
Baransy, H. J.---------Hardin, O.
Baughman, Orville,----Hardin, O.
Bachellor, Raymond--Okla., Okla.
Burgess, Fred--------Hamilton, O.
Browne, Harold--------Lorain, O.
Clifford, J. M.-------Cuyahoga, O.
Clifford, E. E.---------Lorain, O.
Cromer, L. V.----------Clark, O.
Conkle, Elizabeth-----Hardin, O.
Coffman, Richard F.----------- Montgomery, O.
Cramer, Chas.---------Hardin, O.
Copeland, Don--------Auglaize, O.
Corwin, Emmett L.-----Hardin, O.
Cook, Melvin----------Putnam, O.
Countryman, Enos L.-----Allen, O.
Candler, Lester--------Hardin, O.
Clevenger, Lewis--------Allen, O.
Casper, Howard---------Stark, O.
Dailey, Raymond E.------Pike, O.
Davies, A. C.-----------Allen, O.
Daniels, Abraham-Renssalear, N.Y.
Diebler, Milton-----Crawford, O.
Donithen, H. A.-------Marion, O.
Day, Allan-------------Allen, O.
Dumbauld, Carl--------Hardin, O.
Diller, Orlo-------------Allen, O.
Egger, Donald---------Monroe, O.
Eyster, J. Dean-----Williams, O.
Fell, E. E.----------Trumbull, O.
Fell, Lenore---------Trumbull, O.
Focht, B. H.---------Auglaize, O.
Faulkner, Chas. J.------Shelby, O.
Fantz, Franklin E.------Allen, O.
Freeman, Marion------Hardin, O.
Gillim, Donald A.-------Green, O.
Griebling, Chas. W.--Richland, O.
Gross, Fred------St. Joseph, Ind.
Guttman, Linus W.-----Shelby, O.
Harvey, Khiva---------Hardin, O.
Hall, F. LeRoy--Berkshire, Mass.
Hartley, Omar---------Green, Pa.
Hartman, Ralph------Beaver, Pa.
Holman, Carl----------Hardin, O.
Haber, Tom B.----------Darke, O.
Higbee, Calvin A.-------Lucas, O.
Hurst, Cora------Tuscarawas, O.
Heterick, Frances---Dukes, Mass.
Haines, Gail------------Allen, O.
Hoffman, Chas. L.-----Putnam, O.
Hettish, F. M.-----------Erie, O.
Hurless, Doyt B.---Van Wert, O.
Heckathorn, Everett H.-Hardin, O.
Hoffman, Lamont--------Allen, O.
Harper, Jno. C.----Lawrence, Pa.

Hall, Margaret---Montgomery, O.
Irvin, Harry-----------Allen, O.
Imbody, W. H.--------Marion, O.
Jones, Gladys----------Hardin, O.
Johnson, Glen---------Marion, O.
King, L. F.------------Hardin, O.
Kucinskas, T. J.---Monroe, N. Y.
Kloepfer, Jay-----------Logan, O.
Kyner, Hobart-------Richland, O.
Loy, Frank L.---------Hardin, O.
Lyman, Raymond S.---Hardin, O.
Lehnis, Karl F.---------Stark, O.
Lantz, Clifford---------Hardin, O.
Miller, H. H.---------Morrow, O.
Mollenberg, K. E.-------Wood, O.
Metz, M. D.-----------Marion, O.
Monks, Leroy J.--New Haven, Conn.
McMullen, Otto--------Monroe, O.
Markley, F. G.---------Hardin, O.
Mercer, Frank---------Hardin, O.
Mertz, Merle----------Hardin, O.
McColm, Frank--------Hardin, O.
Milligan, H. E.------Van Wert, O.
Myers, Relmond D.---Williams, O.
Minnich, Carl F.--------Logan, O.
Motley, Arthur W.------Erie, Pa.
McClanahan, Harry---Fairfield, O.
Matheny, Arlie--------Hardin, O.
McGinnis, Wilma-------Hardin, O.
Nelson, F. R.----------Monroe, O.
Northrup, Verne-------Hardin, O.
O'Leary, A. F.-------Crawford, O.
Perry, Clarence--------Hardin, O.
Pugh, Ray M.---------Monroe, O.
Palmer, Chas. E.-------Hardin, O.
Potter, J. Austin--------Allen, O.
Phillips, Louella-------Hardin, O.
Pryor, Jno. E.----------Logan, O.
Penhorwood, S. D.-----Hardin, O.
Parson, W. S.---------Beaver, Pa.
Porath, J. A.--------Howard, Ind.
Payne, Neil N.------Ashtabula, O.
Reese, Lloyd----------Putnam, O.

Rowand, R. A.---------Clinton, O.
Rowand, A. E.---------Clinton, O.
Ridenour, Virgil---------Allen O.
Ross, Myrtle-----Montmore, Colo.
Remy, Frank S.------Richland, O.
Rieser, Frederick N.--Wyandot, O.
Rawers, A. J.----------Mercer, O.
Randall, Carl A.----------Erie, Pa.
Robnolte, Mathew------Hardin, O.
Saunders, C. C.-----------Pike, O.
Speese, Geo. A.---------Union, O.
Smith, Guy L.---------Hardin, O.
Sims, Albert-----Muskogee, Okla.
Spellman, Ruth--------Hardin, O.
Smith, Harriet---------Hardin, O.
Snyder, Ruth----------Hardin, O.
Stroup, Albert---------Hardin, O.
Shew, F. L.------------Blair, Pa.
Schroer, Robt. S.-----Richland, O.
Sink, Edwin-----------Hardin, O.
Sloan, Loyd E.--------Mercer, O.
Spellman, Katherine---Hardin, O.
Scoville, Harold I.---Ashtabula, O.
Spellman, Jas. R.------Hardin, O.
Tinker, Miles A.--Birkshire, Mass.
Tully, Frank-----------Logan, O.
Trostle, Wayne M.-----Putnam, O.
Turner, R. W.---------Hardin, O.
Thrasher, Amanda---Paulding, O.
Thomas, Harold-----Highland, O.
Tudor, Arthur-----------Allen, O.
Thompson, Darl--------Hardin, O.
Warren, Marjorie-----Hardin, O.
Wingerd, Christian------Stark, O.
Wood, Ralph----------Allen, Ind.
Wahl, Orlea---------Paulding, O.
Wyman, R. S.-------Ashtabula, O.
Weissberger, Geo.----Cuyahoga, O.
Wells, Jno. E.---------Hardin, O.
Woodworth, Loyd---Ashtabula, O.
Winegardner, B. G.------Allen, O.
Wiseman, Merrill---Lawrence, O.

COLLEGE OF EDUCATION

Ash, Mary------------Hardin, O.
Apt, Fern O.----------Hardin, O.
Antin, Etta R.----------Lucas, O.

Armentrout, Edna------Hardin, O.
Armentrout, Elma------Hardin, O.
Andrews, Blanche--------Allen, O.

Ailes, Sidney----------Hardin, O.
Armstrong, Geo. B.--Wyandot, O.
Arnold, Pearle E.-Washington, O.
Andrews, Louise------Mercer, O.
Ault, Hilda----------Wyandot, O.
Ault, Mary----------Wyandot, O.
Allison, C. Edna--Washington, O.
Alloway, Lela----------Logan, O.
Arthur, Mary-----------Allen, O.
Alspach, Wanda------Wyandot, O.
Allcroft, Vivian T.------Hardin, O.
Baltzell, Dwight------Mercer, O.
Bash, J. M.-----------Hardin, O.
Bayles, Ralph O.-----Delaware, O.
Bayles, Byron E.-----Delaware, O.
Boyd, Lenore----------Scioto, O.
Burnett, Sara---------Warren, O.
Brown, Margaret------Morrow, O.
Beal, Helen-------Tuscarawas, O.
Billman, Edna--------Paulding, O.
Bailey, Winona------Auglaize, O.
Brickman, Erma--------Henry, O.
Burnett, Lois-----------Allen, O.
Bales, Cora------------Logan, O.
Black, Lura--------Ingram, Mich.
Brammer, Pearl-----Lawrence, O.
Bull, Flossie------Champaign, O.
Braden, Gertrude-------Logan, O.
Bales, Clara-----------Shelby, O.
Baker, Velma A.-------Shelby, O.
Bailey, Ruth------------Union, O.
Brown, Kappa---------Hardin, O.
Bope, Gladys--------Van Wert, O.
Balyard, Marie------Wyandot, O.
Boerstler, Mildred---Fairfield, O.
Belston, Ethel May-----Allen, O.
Baming, Callia---------Hardin, O.
Barnes, Lucile---------Hardin, O.
Bresler, Gladys--------Hardin, O.
Bower, Florence---------Allen, O.
Benner, Ruth----------Hardin, O.
Black, Mary------------Allen, O.
Bevan, Margaret---------Allen, O.
Bennett, Ethel-----------Ross, O.
Boysell, Etta L.---------Allen, O.
Bash, Freda-----St. Joseph, Ind.
Ballantine, Ruby-----Richland, O.
Billingsly, Hazel-----Franklin, O.
Bell, Gertrude----------Logan, O.

Barharst, Bernard----Shelby, Pa.
Balmer, J. E.-------Allegheny, Pa.
Benschoff, Boyd--------Logan, O.
Brown, Arthur------Crawford, O.
Brandon, Myron------Mercer, O.
Brown, Harold K.---Crawford, O.
Brown, Glayds----------Allen, O.
Bechtel, Erma----------Logan, O.
Bowers, Ruby-------Hancock, O.
Bedford, Mary----------Allen, O.
Britton, Ethel-----Columbiana, O.
Burgett, Ruth-------Clermont, O.
Bailey, Jane----------Auglaize, O.
Burnett, Edna-----------Allen, O.
Brown, Margaret------Mercer, O.
Baker, Fairy----------Hardin, O.
Buswell, Florence-----Madison, O.
Blatt, Carrie----------Ottawa, O.
Billinger, Adda------Auglaize, O.
Bentley, Jessie------Paulding, O.
Brown, Bessie------Sandusky, O.
Bloxham, Minnie------Hardin, O.
Beach, Esther---------Hardin, O.
Beidelshies, Mrs. Hazel------- Wyandot, O.
Boord, Mrs. C. M.-------Union, O.
Baker, Clara-----------Shelby, O.
Bowsher, Erma----------Allen, O.
Barnes, Mrs. Hattie----Butler, O.
Bowers, Aleta----------Hardin, O.
Baker, Wessie V.--------Allen, O.
Comman, Chas. L.---Paulding, O.
Coats, Dallas----------Mercer, O.
Chambers, Geo.---------Scioto, O.
Carpenter, Chas, M.--Delaware, O.
Criger, Earl--------Wyandot, O.
Cole, A. H.----------Hancock, O.
Clapper, D. W.--------Shelby, O.
Conner, Mason---------Hardin, O.
Creviston, Caddie-----Marion, O.
Carpenter, Leota L.-----Shelby, O.
Carey, Hazel----------Hardin, O.
Colter, Bernice-----Van Wert, O.
Clinger, Inez----------Hardin, O.
Clement, Ivalue--------Hardin, O.
Coats, Rebecca--------Hardin, O.
Clark, Ruth-----------Hardin, O.
Corbett, Goldie--------Hardin, O.
Cantrell, Ruth---------Hardin, O.

Curless, Minnie_________Allen, O.
Coit, Daisy____________Allen, O.
Cloore, Paul___________Allen, O.
Crissey, Edith__________Allen, O.
Carey, Ola_____________Allen, O.
Davison, Evelyn________Allen, O.
Dustman, Grace____Van Wert, O.
Dickson, Edith________Hardin, O.
Dawson, Pearl_______Morrow, O.
Dewitt, Florence______Hardin, O.
Dubbs, Lottie_________Hardin, O.
Davidson, Esther____Delaware, O.
Dawson, Dessie P.________Pike, O.
Dearbaugh, Beulah____Shelby, O.
Davis, Grace____________Knox, O.
Dunson, Georgia______Hardin, O.
Dunson, Beulah_______Hardin, O.
Dixon, Opal___________Logan, O.
Dobbins, Hazel________Hardin, O.
Ducey, Lizzie___________Allen, O.
Ducey, Anna____________Allen, O.
Dedrick, Ruth________Mercer, O.
Davenport, C. Ruth____Hardin, O.
Davis, Cecil_____________Allen, O.
Dillon, Lela B.________Seneca, O.
Diehl, Laura A._______Hocking, O.
Duvall, Lula________Auglaize, O.
Ditzler, Ellen__________Allen, O.
Davis, Clara__________Scioto, O.
Dally, Audrey_________Hardin, O.
Detrick, Guy__________Hardin, O.
England, Frances____Hancock, O.
English, Ola______Tuscarawas, O.
Ehrman, Aldine_________Allen, O.
Emerick, Donna_________Knox, O.
Edwards, Pauline______Hardin, O.
Elwood, Nancie_____Ashtabula, O.
Elliott, Lillian__________Allen, O.
Elwood, Alonzo_____Ashtabula, O.
Ellison, Clarence F.____Hardin, O.
Emmons, J. C.________Marion, O.
Essex, Carl_________Paulding, O.
Ewing, Anna__________Hardin, O.
Fetter, F. O.__________Mercer, O.
Font, Eli____________Defiance, O.
Fugate, Grace_________Hardin, O.
Ford, Lela__________Williams, O.
Wisher, Hazel____Tuscarawas, O.
France, Sara______Washington, O.

Fawcett, Cora__________Knox, O.
Fausnaugh, Ivy M.___Fairfield, O.
Freeman, Alice____Champaign, O.
Fisher, Alma________Auglaize, O.
Fisher, G. M.________Delaware, O.
Fishbaugh, Wayne_____Mercer, O.
Fishbaugh, Samuel____Mercer, O.
Fisher, Paul E.________Mercer, O.
Ford, B. R.______________Allen, O.
Fackler, Fannie_________Allen, O.
Franklin, Marian______Hardin, O.
Franklin, Muriel______Hardin, O.
Fulks, Ruth___________Hardin, O.
Frazier, Mabelle______Hardin, O.
Fisher, Lena__________Mercer, O.
Fisher, Adah__________Mercer, O.
Ford, Ethel________Van Wert, O.
Ford, Mrs. Clara_________Allen, O.
Fisher, Edith___________Allen, O.
Freshour, Mrs. Goldie________
Comanche, Kan.
Foster, Lorena_________Hardin, O.
Graver, Harland________Henry, O.
Greenlee, Dallas________Henry, O.
Gray, J. W.______Tuscarawas, O.
Gallapao, Ralph_____Paulding, O.
Gallman, Gladys______Mercer, O.
Gallman, Florence_____Mercer, O.
Gossard, Marjorie____Madison, O.
Gorsuch, Hettie______Licking, O.
Gibbs, Carrie_______Trumbull, O.
Gentis, Grace______Champaign, O.
Gentis, Roxie_____Champaign, O.
Garling, Vera__________Hardin, O.
Goddard, Gertrude_Washington, O.
Giha, Necil_____________Wood, O.
Gordon, Edith_________Morrow, O.
Glenn, Claire____________Pike, O.
Glenn, Helen____________Pike, O.
Glenn, Minnie__________Scioto, O.
Goetter, Elizabeth___Richland, O.
Gilliotte, Marie_______Putnam, O.
Goodwin, Pearl__________Allen, O.
Gigandet, Mary_________Shelby, O.
Gibbs, L. Belle__________Allen, O.
Guy, Emma______________Allen, O.
Gardner, Maude_Pocahontas, W.Va.
Gates, J. Ralph_______Mercer, O.
Gallman, Anna________Mercer, O.

Grimes, Adelaide	Clark, O.
Gills, Anna Mae	Gallia, O.
Gordon, Hannah R.	Allen, O.
Graver, Harland, E.	Henry, O.
Gross, Raymond	Hardin, O.
Grappy, Lucile	Hardin, O.
Godfrey, Helen	Allen, O.
Germann, Stella	Van Wert, O.
Gilmer, Mabel	Auglaize, O.
Gray, Francis	Henry, O.
Gossard, Cristel	Allen, O.
Gigandet, Esther	Shelby, O.
Galling, Jean	Wyandot, O.
Glenn, Helen	Pike, O.
Godfrey, Lucile	Allen, O.
Guth, Lillian	Ottawa, O.
Gegenheimer, Ida	Crawford, O.
Hollingsworth, Foster	Green, O.
Howard, Gail	Hardin, O.
Hassan, C. O.	Delaware, O.
Hassan, Paul L.	Delaware, O.
Hunt, H. H.	Ashtabula, O.
Houpt, L. H.	Wood, O.
Hanna, Lauren	Hardin, O.
Harvey, Mary B.	Shelby, O.
Hazelbacker, Myrtle	Scioto, O.
Hittepole, Leona	Auglaize, O.
Hamilton, Gertrude	Allen, O.
Howard, Edna	Hancock, O.
Hankinson, Bessie	Licking, O.
Heilman, Wilma	Henry, O.
Howell, Faye	Coshocton, O.
Hayes, Adam	Logan, O.
Hutchinson, Laura	Hardin, O.
Hickle, Ethel M.	Hardin, O.
Hull, Nelle	Hardin, O.
Heilman, Ruah	Hardin, O.
Hosford, Helen	Huron, O.
Harrington, Marie	Washington, O.
Harmon, Hazel F.	Hardin, O.
Hesser, Nimnia	Hardin, O.
Hughes, Fern	Logan, O.
Herr, Opal	Hardin, O.
Hoffman, Nelle G.	Allen, O.
Hooper, Lucy	Allen, O.
Hill, Laura	Allen, O.
Herzog, Marguerite	Montgomery. O.
Harger, Beatrice	Wood, O.
Heath, Helen	Allen, O.
Hall, Mary	Allen, O.
Hagedorn, J. O.	Hancock, O.
Hines, Mary	Union, O.
Hayman, Nettie	Wyandot, O.
Huysman, Ada	Putnam, O.
Harris, Florence	Hardin, O.
Hazelle, Alice	Allen, O.
Heuberger, Hazel	Hancock, O.
Harvey, Clarinel	Logan, O.
Harvey, Bertha	Hardin, O.
Hines, Iva	Sandusky, O.
Hopkins, Helen	Carroll, O.
Houchin, Gladys	Logan, O.
Hoffman, Garrold	Mercer, O.
Hoover, W. R.	Allen, O.
Hughes, C. F.	Allen, O.
Hatfield, W. R.	Allen, O.
Hiett, Reid	Auglaize, O.
Helms, Seona	Allen, O.
Harmon, Ruth	Hardin, O.
Houser, Treva	Hardin, O.
Irvine, Willis L.	Allen, O.
Insley, J. W.	Wood, O.
Irvin, Nellie	Allen, O.
Ingersoll, Etta	Union, O.
Jeffries, Alma	Darke, O.
Jenkins, Edythe	Paulding, O.
Johnson, Lois	Hardin, O.
Jahraus, Clara	Erie, O.
Johnson, Clara	Madison, O.
Johnson, Katie	Hardin, O.
Jones, Edna	Scioto, O.
Jones, Jessie	Hardin, O.
Jacobs, Zoe J.	Allen, O.
Jackson, Marie	Mercer, O.
Johnson, Inga	Allen, O.
Karr, Ray R.	Mercer, O.
Klontz, Earl	Green, O.
Kelly, Ernest	Mercer, O.
Kellog, Ralph	Hardin, O.
Kau, Banyung	China
Kraus, Frank H.	Wood, O.
Kneisley, Gladys	Pike, O.
Klever, Grace	Fayette, O.
Koch, Gladys H.	Union, O.
Kuenzli, Helen	Auglaize, O.
Kuck, Esther	Auglaize, O.
Kauble, Ethel	Hardin, O.

Kear, Charlotte--------Hardin, O.
Kahler, Cora----------Hardin, O.
Kinney, Imogene------Hardin, O.
Kuhn, Leila----------Wyandot, O.
Kent, Lela-----------Auglaize, O.
Keller, Laura---------Morrow, O.
Keller, Olive----------Morrow, O.
Kopf, Helen-----------Miami, O.
Klein, Anna------------Allen, O.
Kilbridge, Mary----------Erie, O.
Keville, Nora-----------Allen, O.
Knotts, Clinton-------Auglaize, O.
Kropf, Jessie-------------Erie O.
Kropf, Flossie-----------Erie, O.
Kauble, Ruth----------Hardin, O.
Kramer, Iness-----------Allen, O.
Klein, Anna M.----------Allen, O.
Kephart, Ruth----------Allen, O.
Lenis, Chas. W.--------Huron, O.
Lewis, Robt. S.--------Hardin, O.
LaRue, Jacob L.-----Pickaway, O.
Ludwig, May----------Hardin, O.
Long, Vivian-----------Darke, O.
Lutz, Zelina-------------Allen, O.
Laugabaugh, Evelyn---Hardin, O.
Lucas, Grace--------Ashtabula, O.
Lehman, Katherine-----Miami, O.
Letherman, Elseba-------Wood, O.
Lewis, Bernice---------Mercer, O.
Levering, Adalene----Morrow, O.
Leeka, Caryl----------Marion, O.
Loy, Emma----------Auglaize, O.
Lyons, Julia------------Allen, O.
Lytle, Leila--------Van Wert, O.
Lewis, Ralph----------Mercer, O.
Lewis, Chas. W.--------Huron, O.
Loy, Frank L.----------Hardin, O.
Long, Lester----------Hardin, O.
Loegel, Lena---------Auglaize, O.
Loveridge, Laurene------Cook, Ill.
Lennington, Evelyn---Licking, O.
Lutz, Ollie----------Wyandot, O.
Lord, Lelah---------Williams, O.
Leech, Fay-------------Green, O.
Loach, Jeanette--------Henry, O.
Lutz, Zelma------------Allen, O.
Lawrence, Cretora-----Hardin, O.
Leech, Marjorie---------Allen, O.
Leech, Clara------------Allen, O.
Littler, Minnie----------Allen, O.
Long, Iva-------------Hardin, O.
Leigh, Leona--------Van Wert, O.
Lantz, Bernice---------Hardin, O.
Moore, Edwin E.-------Adair, Ky.
Murray, Ray H.---------Green, O.
Moffet, O. H.----------Logan, O.
Moffet, Richard---------Logan, O.
McCay, J. H.-------------Pike, O.
McBeth, Clay----------Hardin, O.
Manning, J. F.---------Hardin, O.
McCoy, Doris-----------Allen, O.
Moore, Ida------------Scioto, O.
Miller, Florence-------Marion, O.
Mather, Ethelwyn------Union, O.
Murphy, Faye-----------Pike, O.
McCrea, Jennie------Madison, O.
McCrea, Gladys------Madison, O.
McCrea, Blosson-----Madison, O.
McGruder, Ruth,---Coshocton, O.
Miller, Blanche-----Coshocton, O.
Miller, Marie--------Auglaize, O.
McClain, Rosella-----Auglaize, O.
Morrison, Clara--------Hardin, O.
Marnon, Ruth---------Hardin, O.
Mitchell, Lucile---------Darke, O.
Meyer, Ruth------Tuscarawas, O.
Martz, Icy------------Mercer, O.
Miller, Herma------Van Wert, O.
Moon, Helen-----------Logan, O.
Montgomery, Pearl---Auglaize, O.
Myers, Nora-----------Hardin, O.
Metz, Mae------------Marion, O.
Musser, Sadie-----------Allen, O.
Maxwell, Lillian-------Holmes, O.
Moore, Gertrude---------Allen, O.
Moser, Emma--------Wyandot, O.
Marshall, Louise---------Pike, O.
Moorehead, Winifred----Allen, O.
Moore, Vilma----Ontario, Canada
Mertz, Madeline-----Hancock, O.
Messenger, Alice-------Marion, O.
Martin, Forrest------Franklin, O.
McGuffey, H. Clay-----Hardin, O.
Moffett, Geo. K.------Richland, O.
McKelvy, J. Thos.-------Logan, O.
McWilliams, Robert---Hardin, O.
Montgomery, Albert--Jefferson, O.
McElroy, Ethel--------Hardin, O.

McCleary, Crystal--------Allen, O.
McKim, Bertha--------Hardin, O.
McClain, Katherine---Wyandot, O.
Miller, Sadie---------Madison, O.
Morrison, Helen------Hardin, O.
McElroy, Esther------Hardin, O.
McElroy, Elizabeth----Hardin, O.
McCoy, Mary---------Madison, O.
McGinnis, Wilma------Hardin, O.
McWilliams, Mary-----Hardin, O.
McCrea, Hope---------Fayette, O.
Morgan, Lucretia--------Allen, O.
Morgan, Deborah--------Allen, O.
McKee, Bertha----------Allen, O.
McKee, Lucile-----------Allen, O.
McCarthy, Catherine---Ottawa, O.
Merkel, Dorothea------Wayne, O.
Mealy, Minnie---Harrison, W. Va.
May, Nevo------------Mercer, O.
Mayer, Ruby------------Allen, O.
Marshall, Ellen--------Hardin, O.
Nott, Helen------Washington, O.
Neal, Zura------------Holmes, O.
Noland, Dewey H.------Ottawa, O.
Nisonger, Geo.-----------Dark, O.
Nickell, Dorothy--------Logan, O.
Nolze, Bertha--------Delaware, O.
Nye, Wavelene----------Allen, O.
Neely, Helen----------Hardin, O.
Northcroft, Miriam W.---------
Franklin, O.
Newhouse, Samilda-----Stark, O.
Newell, Loma M.-----Wyandot, O.
Olinger, Floyd----------Darke, O.
Owen, Pearl---------Delaware, O.
Obenour, Amanda------Hardin, O.
Oliphant, Effie---------Marion, O.
Orthwein, Miriam---Crawford, O.
Prosser, Edw.--------Richland, O.
Penn, Dewitt--------Delaware, O.
Poling, Elmer,---------Hardin, O.
Presser, Mabel-------Richland, O.
Powell, Beulah---------Hardin, O.
Preston, Leone-----Coshocton, O.
Pierce, Oval---------Van Wert, O.
Pheneger, Ora-------Delaware, O.
Parrette, Elizabeth-----Allen, O.
Pealer, Ruth------------Knox, O.
Parson, Esther Jane--Beaver, Pa.

Parsons, Ruth----------Huron, O.
Price, Marie-----------Hardin, O.
Powell, Dovie--------Madison, O.
Price, Lizzie, K.---------Allen, O.
Pore, Maude---------Hancock, O.
Patton, Gail R.--------Putnam, O.
Parr, Eunice----------Hardin, O.
Parlette, Nelle--------Auglaize, O.
Pugh, Eva M.--------Madison, O.
Price, Florence----------Allen, O.
Pepple, Pleasant-----Auglaize, O.
Quay, Catherine------Morrow, O.
Rowling, Pearl--------Morrow, O.
Rodgers, Alpha----Tuscarawas, O.
Ralston, Jacob----------Scioto, O.
Royer, W. E.-----------Logan, O.
Rudibaugh, Olive--------Allen, O.
Roberts, Anne--------Madison, O.
Romick, Flossie--------Hardin, O.
Robertson, Evelyn------Scioto, O.
Roller, Alma--------Van Wert, O.
Ream, Artie-----------Shelby, O.
Rogers, Florence------Seneca, O.
Ripley, Eva------------Hardin, O.
Rhonemus, Jessie------Hardin, O.
Ritchie, Anna--------Paulding, O.
Roe, Emily-------------Wood, O.
Roberts, Mabel----------Allen, O.
Rinehart, Martha----Auglaize, O.
Reilly, Drusilla----------Allen, O.
Richards, Florence-----Lorain, O.
Reichart, Martha--------Knox, O.
Reed, Helen---------Crawford, O.
Root, W. R.--------Coshocton, O.
Rolston, Henry G. M.--Hardin, O.
Ramey, Ralph------Lawrence, O.
Richey, Paul D.------Delaware, O.
Ritchie, T. H.-------Paulding, O.
Retterer, Edith------Wyandot, O.
Russell, Frances------Hardin, O.
Ream, Ione------------Hardin, O.
Ruppright, Grace------Hardin, O.
Roof, Mabel---------Jefferson, O.
Runyan, Clela---------Mercer, O.
Reed, Una-----------Auglaize, O.
Rochester, Helen D.--Hocking, O.
Smith, Ralph P.-------Hardin, O.
Smith, R. B.----------Hardin, O.
Snyder, Donald C.------Mercer, O.

Stroup, A. M.----------Hardin, O.
Snyder, Oliver----Tuscarawas, O.
Steimbrey, Ross---Tuscarawas, O.
Staezer, Robert-------Mercer, O.
Schroeder, Carl-------Mercer, O.
Severe, Carrie--------Licking, O.
Stover, Bess-----------Allen, O.
Sink, Lois-----------Hardin, O.
Shidaker, Hazel-------Shelby, O.
Street, Data----------Hardin, O.
Street, Deta----------Hardin, O.
Stetler, Eva--------Van Wert, O.
Spencer, Nola----------Darke, O.
Strawser, Ethel-------Marion, O.
Stedman, Viola----------Pike, O.
Speakman, Alta------Paulding, O.
Slade, Marie-----------Darke, O.
Shrayer, Esther-------Mercer, O.
Stalen, Edith---------Hardin, O.
Simpson, Helen---Tuscarawas, O.
Swartz, Nellie-------Auglaize, O.
Schmeltz, Elizabeth----Ottawa, O.
Schmeltz, Lillie-------Ottawa, O.
Smith, Mary Gertrude--Marion, O.
Scott, Ruth---------Paulding, O.
Sourwine, Iva------Sandusky, O.
Shaw, Clara C.---------Logan, O.
Sanders, Jennie----Ashtabula, O.
Smith, Agnes----------Hardin, O.
Swartz, Thelma----------Allen, O.
Snyder, Ruth----------Hardin, O.
Snook, Nettie M.--------Allen, O.
Sheneman, Olive----Coshocton, O.
Sprain, Goldie------Van Wert, O.
Salt, Nell------------Hardin, O.
Shook, Donna-----------Wood, O.
Stuve, Lucile-----------Henry, O.
Stolzenbach, Clara------Allen, O.
Swearingen, J. F.-----Hardin, O.
Shearron, Herbert-Tuscarawas, O.
Sneeringer, A. T.------Hardin, O.
Swavely, Lester E.-Berkshire, Pa.
Sharp, Paul----------Hardin, O.
Sours, Nelson O.--------Logan, O.
Stroup, A. M. F.------Hardin, O.
Small, Forest M.--------Darke, O.
Sleppy, Ira F.----------Darke, O.
Shadley, Morris-------Hardin, O.
Smith, G. L.----------Hardin, O.
Schneider, C. O.-------Monroe, O.
Stull, Vera----------Morrow, O.
Simpson, Jean---------Hardin, O.
Seidener, Effie-----------Allen, O.
Stout, Alice J.---------Hardin, O.
Schwab, Orleta---------Seneca, O.
Stone, Ethel--------Crawford, O.
Swartz, Cleta---------Auglaize, O.
Strong, Roxie-----------Green, O.
Stephenson, Nettie------Mercer, O.
Staley, Edith----------Hardin, O.
Sneeringer, Nettie---Wyandot, O.
Sproull, Vera----------Hardin, O.
Sours, Louella----------Butler, O.
Stewart, Fara------Van Wert, O.
Schmeltz, Barbara------Ottawa, O.
Sleesman, Mary--------Hardin, O.
Schwab, Modjeska------Seneca, O.
Starner, Mrs. G. A.-----Marion, O.
Smith, Mildred---------Marion, O.
Spriggs, Mabel---------Mercer, O.
Schnabel, Lena----------Allen, O.
Snider, Elzie------------Allen, O.
Simpson, Ethel----------Allen, O.
Switzer, Belva---------Hardin, O.
Staver, Ilo-------------Allen, O.
Snyder, Annabelle------Mercer, O.
Smith, Harriet---------Hardin, O.
Snider, Elsie------------Allen, O.
Sutton, Grace---------Marion, O.
Schubert, Grace--------Henry, O.
Taylor, C. O.-------Charpagne, O.
Tracy, D. V.------------Knox, O.
Taylor, Helen-------Auglaize, O.
Teeling, Hazel---------Holmes, O.
Timmons, Frances---Pickaway, O.
Thompson, Charlotte-Highland, O.
Temple, Alice----------Hardin, O.
Thomas, Grace C.---Delaware, O.
Turner, Mabel----------Green, O.
Tucker, Josephine------Marion, O.
Tracy, Bettie-------Ohio, W. Va.
Thompson, Jean---------Allen, O.
Teal, F. L.-------------Allen, O.
Tabor, Geneva---------Hardin, O.
Tinker, Josephine--------Knox, O.
Treece, Ina----------Hancock, O.
Terry, Vivian-------Paulding, O.
Turner, Mabel----------Green, O.

Thomas, Neva	Allen, O.
Trimmer, Grace	Huron, O.
Van Dorn, Ruth E.	Wood, O.
Voke, Ruby	Paulding, O.
Vogel, Ralph	Wyandot, O.
Vermilion, Montie	Hardin, O.
Vassar, Lela	Hardin, O.
Winbigler, Ellen	Richland, O.
Windle, Lillian	Scioto, O.
Warren, Lois,	Hardin, O.
Watts, Lima E.	Ross, O.
Wills, Ruth	Tuscarawas, O.
Ware, Dorothy E.	Fayette, O.
Wentz, Esther,	Hardin,, O.
Williams, Esther	Licking, O.
Wierville, Leona E.	Auglaize, O.
West, Gertrude	Tuscarawas, O.
Wilmoth, Lotta	Marion, O.
Wilbur, Olive E.	Erie, O.
Wehe, Frances	Champaign, O.
Warren, Dorothy	Hardin, O.
Walsh, Catherine	Scioto, O.
Wolfe, Wade	Mercer, O.
Wheeler, Kirby	Shelby, O.
Wilson, June	Hardin, O.
Wilson, Fay	Mercer, O.
Wiedenroth, Helen	Wood, O.
Woolam, Ilo	Hardin, O.
Wilson, Ermal	Mercer, O.
Wilson, M. Myrtle	Morrow, O.
White, Edna	Scioto, O.
Welsh, Eva	Hardin, O.
Winemiller, Helen	Allen, O.
Wallace, Nora	Van Wert, O.
Wolfe, Lillie	Morrow, O.
Wisher, Edna B.	Allen, O.
Wickerham, Hazel	Hancock, O.
Wilson, Georgiana	Hardin, O.
Weizelbaum, Elzie	Allen, O.
Whiteside, Forest	Madison, O.
Walker, Grover C.	Auglaize, O.
Wang, K. L.	China
Younger, W. S.	Mercer, O.
Young, Dee	Mercer, O.
Yentzer, Ethel	Wyandot, O.

PREPARATORY SCHOOL

Armacost, Elizabeth	Clermont, O.
Anderson, Thos. G.	Lawrence, Pa.
Amstutz, Harold J.	Allen, O.
Andrews, Jas.	Mercer, O.
Brown, Mabel	Paulding, O.
Bernaldi, Vincent	Hardin, O.
Bustard, J. N.	Cuyahoga, O.
Bowdle, J. N.	Hardin, O.
Black, Wm. C.	Tuscola, Mich.
Blosser, Helen	Cuba
Brown, Neva O.	Crawford, O.
Bemis, Harvey D.	Lorain, O.
Baker, Alfred J.	Lawrence, Pa.
Ballana, M. M.	Phillipine Ids.
Breesman, Wm. H.	Mahoning, O.
Burgas, Manuel	Porto Rico
Bird, Everett L.	Hardin, O.
Cole, A. H.	Hancock, O.
Colley, Frank R.	Miami, O.
Cunningham, G. L.	Bedford, Pa.
Congden, Geo. N.	Wayne, Mich.
Castle, Ray	Logan, O.
Cuenza, L. A.	Phillipine Ids.
Chamberlain, C. F.	Cook, Ill.
Coffman, Richard	Hardin, O.
Clayton, John F.	Logan, O.
Clark, Chas.	Van Wert, O.
Cass, J. Leonard	Putnam, O.
Duggan, A. G.	Erie, O.
Dixon, Alphonse	Lithuania
Danderis, Jos.	Lithuania
Dart, Jesse P.	Ashtabula, O.
Dean, Howard	Mahoning, O.
Eversole, Lucinda	Hardin, O.
Erickson, Henry	Allegheny, Pa.
Erdman, E. A.	Eau Clair, Wis.
Ewing, Helen	Hardin, O.
Fosgate, Erwin	Monroe, Mich.
Frank, Geo. E.	Morrow, O.
Fustenberger,	Marion, O.
Fackler, Georgia	Allen, O.
Falter, J. B.	Allen, O.
Fischer, W. G.	Cuyahoga, O.
Ford, Samuel	Allegheny, Pa.
Fike, Ernest	Putnam, O.
Gallapoo, Ralph	Paulding, O.

Gudzon, Geo.-------------Canada
Gills, Anna Mae--------Gallia, O.
Graver, Floyd----------Henry, O.
Hedland, R. W.------Mahoning, O.
Hume, Paul----------Madison, O.
Hedrick, John S.-------Hardin, O.
Huber, Brooks----------Allen, O.
Hirt, Verena--------Sandusky, O.
Henwood, Jos.-------Halton, Mich.
Hall, Arthur H.-------Indiana, Pa.
Hawver, Harley D.--Paulding, O.
Harter, Wm. L.------Crawford, O.
Hagerty, Blair----------Lucas, O.
Horn, F. R.--------Allegheny, Pa.
Hepler, Chester W.--Crawford, O.
Howe, Burneta-------Auglaize, O.
Hetzell, Ethel--------Wyandot, O.
Hindson, Noble------Mahoning, O.
Hover, Lois-------------Allen, O.
Ingledue, Grace---------Allen, O.
Jacalne, B.---------Phillipine Ids.
Jackson, Dee----------Mercer, O.
Jones, John Pugh-----Franklin, O.
Jeffries, Kermit---------Darke, O.
Kennedy, Lehr---------Hardin, O.
Katherman, J. L.-------Miami, O.
Kersis, Peter J.------Cuyahoga, O.
Kline, O. E.---------Crawford, O.
Kisshirger, L. A.-------Hardin, O.
Keller, Saul--------Lawrence, Pa.
Leech, C. H.----------Butler, Pa.
Lejarza, Salvador, Jr.--Nicaragua
Lee Lih Teh---------------China
Lee Lih Yiu---------------China
Maxwell, Theo.------Cuyahoga, O.
Mango, Albert C.------N. Y., N. Y.
Metz, M. D.-----------Marion, O.
McElroy, Naomi--------Hardin, O.
Miller, D. A.--------Sandusky, O.
McCleery, C. D.-------Fairfield, O.
Marshall, Ellen---------Hardin, O.
Miller, Wm.-------------Stark, O.
McQuire, Leroy---Franklin, Mass.
Moffett, Geo. K.---------Lucas, O.
Noggle, Ruth--------Jackson, Mo.
Newton, Mary E.-------Ottawa, O.
Noaker, Harold---------Stark, O.
O'Leary, A. F.-------Crawford, O.
Perkins, Paul---------Potter, Pa.
Pfau, Virgil------------Henry, O.
Poling, Conwell--------Hardin, O.
Pittman, Crockett-------Logan, O.
Richard, Geo.---------Indiana, Pa.
Ramey, Ralph E.-----Lawrence, O.
Rodebaugh, Ralph D.-Hancock, O.
Ritchie, Anna--------Paulding, O.
Ruebel, Sherman-----Hamilton, O.
Rock, Thos.----------Jefferson, O.
Reese, Lloyd----------Putnam, O.
Robinson, Ralph---------Green, O.
Riley, Horatio B.-------Mercer, O.
Shrider, H. L.-----------Allen, O.
Sugranes, Rafael------Porto Rico
Smith, J. C.----------Paulo, Miss.
Sims, W. H. A.---Muskogee, Okla.
Shy, Anna---------------Pike, O.
Smith, W. L.----------Morgan, O.
Specht, Carl A.-----Allegheny, Pa.
Stuckey, Geo. L.------Licking, O.
Stokes, Julius B.--Hampton, S. C.
Stoudenheimer, C. R.---Wayne, O.
Speece, Ida-----------Marion, O.
Solomon, Helen--------Hardin, O.
Stine, Augusta-------Sandusky, O.
Shull, Jos. E.-----------Allen, O.
Sterner, Garland------Wyandot, O.
Thompson, Luther A.---Scioto, O.
Thomas, Harold B.---Highland, O.
Thomas, E. B.------Allegheny, Pa.
Tamkus, K.------Philadelphia, Pa.
Terrell, C. W.----------Perry, O.
Terman, Gladys------Richland, O.
Thomas, Bertha------Wyandot, O.
Thomas, Neva-----------Allen, O.
Thrasher, Mabel------Paulding, O.
Thompson, Jas. K.-----Beaver, Pa.
Wyman, Robert S.--Ashtabula, O.
Wagner, G. A. B.-------Gallia, O.
Weaver, W. Craig---Hamilton, O.
Wingard, J. F.-------Indiana, Pa.
Wenger, Byron----------Stark, O.
Woolam, Waldo--------Hardin, O.
Wilcox, Alice Mary----Hardin, O.
Williams, R. C.--------Hardin, O.
Young, Ernest F.--------Stark, O.
Zulch, Albert-------Williams, Vt.

COLLEGE OF ENGINEERING

Andrade, Sylvis------------Brazil
Augsburger, Clyde------Allen, O.
Alholm, August--Marquette, Mich.
Arcaute, Joseph-------------Cuba
Applegate, C. C------Mercer, Pa.
Ackerman, G. D.---------Allen, O.
Alves, Orlando F.----------Brazil
Arnold, Edwyn----------Allen, O.
Allen, Robert------------Allen, O.
Bochenek, David--Elizabeth, N. J.
Brumbaugh, C. J.-------Blair, Pa.
Bargman, Bruce B.-Allegheny, Pa.
Belden, Ralph D.-------Lorain, O.
Burgos, Manuel--------Porto Rico
Bodell, Date------------Allen, O.
Beatty, Lowell D.--------Knox, O.
Bierman, Linn C.---Dauphin, Pa.
Burgett, V. C.----------Lorain, O.
Braun, Christian-Philadelphia, Pa.
Berry, Oliver-------Ashtabula, O.
Brownlee, J. L.--------Hardin, O.
Bowker, Ray------Atlantic, N. J.
Bliss, Lester---------Hancock, O.
Bayle, R. M.---------Beaver, Pa.
Bedell, H. R.-------Allegheny, Pa.
Beoughler, Myrtle-----Mercer, O.
Berta Anthony H.-------Logan, O.
Balyard, Russell----Van Wert, O.
Bridge, T. N.-----------Logan, O.
Bertels, Norman H-Highwood, N.J.
Bauman, J. Le Gale--Richland, O.
Bayman, Guy----------Marion, O.
Branstetter, Ben J.-----Hardin, O.
Busick, H. Glenn----Paulding, O.
Beach, Robert C.-------Carroll, O.
Buchele, E. Everett----Hardin, O.
Beattie, J. L.--------Cuyahoga, O.
Burill, Clarence------Putnam, O.
Bastos, Manuel ------------Brazil
Barber, Kenneth W.---Mercer, O.
Brown, Geo.---------Hancock, O.
Blanke, Paul--------Van Wert, O.
Butnar, Paul-------Sandusky, O.
Bauer, Carl------Montgomery, O.
Bowes, Sidney----Tuscarawas, O.
Bengtsson, Andrew--------Sweden
Burnside, C. B.--------Hardin, O.

Braun, K. C.-----Philadelphia, Pa.
Blower, S. Stanley---Franklin, O.
Carey, W. E.-----------Miami, O.
Chart, Clare------Steuben, N. Y.
Comstock, Fred--Berkshire, Mass.
Clark, Winsor O.-Herkimer, N. Y.
Crosta, Alfred A.-----Essex, N. J.
Caterson, Victor A.------------
Fairfield, Conn.
Cordero, L. F.-----Colombia, S. A.
Cotton, E. R.------Cape Bay, N. J.
Cwirko, J. J.-------------Poland
Corliss, Wm. D.--------Butler, O.
Crichfield, Ralph------Morrow, O.
Cochensparger, R. L.-----Allen, O.
Colle, Merle C.---Franklin, Mass.
Congdon, Geo.-------Wayne, Mich.
Cotner, Walter----------Allen, O.
Corbett, J. J.----------Hardin, O.
Colin, Alphonse-----------Espana
Cobb, Donald L.-------Summit, O.
Coffman, Olin----------Logan, O.
Cohen, Philip L.-----Orange, N. Y.
Cooper, Arthur W.-----Hardin, O.
Cook, Clarence LeRoy---Stark, O.
Carey, Paul-----------Hardin, O.
Corlan, A. G.---------------Spain
Cahill, Dalvin--------Jefferson, O.
Conley, Jno. Jr.-------Erie, N. Y.
Diniz, Waldermo-----------Brazil
Dagani, Fidel C.--Mindanao, P. I.
Davidson, F. W.-------Hardin, O.
Dunn, J. K.----------Beaver, Pa.
Dohmen, John-----Brook, W. Va.
Dantan, Richard ----------Mexico
Deibel, Leet-----------Wayne, O.
Dunlaney, James N.-Cattskill, N.Y.
Delzell, Fred N.-----Mahoning, O.
Darnell, Robert J.------Hardin, O.
Doerman, Carl O.-----Richland, O.
Davis, Leroy J.-------Hancock, O.
Donnally, Ralph---Columbiana, O.
Donaher, LeRoy------Auglaize, O.
Dumm, Edwin--------Wyandot, O.
Downing, Donald--------Logan, O.
Ely, Harry A.-------Ontario, N. Y.
Elder, Maurice---------Hardin, O.

Edwardo, J. P.-------Jefferson, O.
Englehart, W. C.--------Knox, O.
Elliott, Wm.-------------Cook, O.
Eshelby, A. Carl----------Erie, O.
Essig, Webster B.-------Stark, O.
Ewing, Edwin D.------Hancock, O.
Ewing, Clay P.-------Hancock, O.
Edwards, Chas. P.----Jefferson, O.
Erdman, Edw. A.---Eau Clair, Wis.
Finley, Max E.--------Hardin, O.
Ferlic, A. J.--------Allegheny, Pa.
Fisher, E. C.--------Coshocton, O.
France, Carlin A.---Washington, O.
Foley, W. R.---------Lawrence, Pa.
Fritz, Chas. E.------Sullivan, N. Y.
Fanning, Geo.-----Hartford, Conn.
Farrell, Ernest E.---Mercer, N. J.
France, Robert F.-Washington, O.
Fahl, Ray D.---------Hancock, O.
Foster, Harry--------Hancock, O.
Fortney, Corliss B.---Van Wert. O.
Fox, Marlin-----------Mercer, O.
Fetzer, Geo.----------Ashland, O.
Fieglist, Harold------Sandusky, O.
Frenier, Rollin E.------Licking, O.
Fulmer, Ward G.----------Lake, O.
Gary, Harold--------Ashtabula, O.
Groves, R. G.----------Monroe, O.
Glover, Clark----------Athens, O.
Gerhart, Ray I.---------Seneca, O.
Grandey, Jos. A.----Lawrence, Pa.
Golden, M. H.------------Canada
Garlinger, Chas. W.----Hardin, O.
Glendenning, Paul--Champaign, O.
Gipson, Claude-------Colman, Tex.
Granger, G. L.----------Lorain, O.
Guimaraes, Antonio---------Brazil
Gilmer, David S.----------Allen, O.
Gilpen, Oren-----------Allen, Ind.
Heasley, E. Clarence---Mercer, O.
Hawe, J. Eldon------Dubuque, Ia.
Heap, Earl C.------Worcester, Pa.
Hartzler, Paul---------Summit, O.
Huff, Troy C.--------Hancock, O.
Hack, Paul A.-------Mahoning, O.
Henshaw, Ralph L.-----Butler, Pa.
Hipsher, M. F.---------Marion, O.
Holsborg, Philip-Berkshire, Mass.
Hobson, H. E.-----Washington, O.
Hobensack, R. L.------Belmont, O.
Herndon, G. R.-------White, Ark.
Harris, Howard M.------Todd, Pa.
Hart, Wilbur M.-------Summit, O.
Heil, Ralph---------Ashtabula, O.
Hecox, Leon C.--------Marion, O.
Hollister, Ross---------Lake, Ind.
Harper, Donald--Pleasant, W. Va.
Hunsicker, Ward-------Wayne, O.
Hickey, Burnie R.---Wachita, Ark.
Hulse, John H.------Mercer, N. J.
Hersh, Teddy R.-------Putnam, O.
Harmon, Harold-------Hardin, O.
Hilton, Lewis S.-Hammond, Mass.
Harris, Ruel M.------Richland, O.
Hoagland, Riley W.----Marion, O.
Holmes, Oscar F. P.--Hancock, O.
Hanlon, Albert W.----Cuyahoga, O.
Heim, Herbert-----Columbiana, O.
Harshbarger, H. P.-Montgomery, O.
Heller, Roland S.--------Allen, O.
Hoeper, Clarence------Auglaize, O.
Huffman, Ephraim------Wayne, O.
Hipsher, Lester C.------Marion, O.
Hanscom, Ralph B.---Cuyahoga, O.
Hill, Forrest-----------Marion, O.
Heckathorn, Royal J.-----Allen, O.
Hardy, Paul R.-------Belmont, O.
Herrman, Elzo R.-------Miami, O.
Hunt, Blair I.-------Blount, Tenn.
Isham, Donovan--------Hardin, O.
Immel, John H.----Champaign, O.
Jorgenson, R. S.---------Denmark
Jones, Orton H.---------Wood, O.
Jackson, D. C.-------Sandusky, O.
Jayne, G. Edmund---Essex, N. J.
Jennings, Doyt C.--------Allen, O.
Jepson, Mark--Cattaraugas, N. Y.
Johnston, Homer W.-----Allen, O.
John, Howard-----------Allen, O.
Jones, Gordon----------Allen, O.
Jones, Arlie-----------Mercer, O.
Jacobs, Frank H.-------Hardin, O.
Johnston, Justin W.--Jefferson, O.
Kuhns, Stanley---Susquehana, Pa.
Kair, Wm.-------Berkshire, Mass.
Kelderhouse, H. W.-Fulton, N. Y.
Kowaless, M. Hubert----------Allegheny, Pa.

Kleinman, Sam------Essex, N. J.
Kaigman, Harry D.----Wayne, O.
Klingler, Jesse---------Hardin, O.
Kirkendall, Chester F.-Putnam, O.
Krichbaum, Waldo------Stark, O.
Kohler, John---------Auglaize, O.
Keady, Herbert W.-----Knox, O.
Kunkel, Jas.---------Cuyahoga, O.
Klaas, Ernest W.-----Kings, N. Y.
Kalbfleisch, Gerald E.-Richland, O.
Kennedy, John------Richland, O.
Krofft, Floyd A.-------Hardin, O.
Law, Chas. W.--Cattaraugas, N. Y.
Leighton, F. C.--Monmouth, N. J.
Lee, E. A.--------------Malaysia
Lewis, E. W.-------Ramsay, Minn.
Leiter, Harold E.--------Lucas, O.
Lyon, Ray-------Chenango, N. Y.
Langguth, Robert-Hubbard, Minn.
Lane, Eric D.---------Belmont, O.
Loehr, Chas. E.---------Logan, O.
Long, Ralph----------Summit, O.
Landers, Floyd W.---Bloom, N. Y.
Leininger, R. S.---Berkshire, Pa.
Lynde, Walter----------Stark, O.
Leonard, E. N.------Caleb, W. Va.
Lotz, Edwin H.---Hartford, Conn.
Liddle, David W.------Mercer, Pa.
Lewandowsky, Julio --------Brazil
Liano, Manuel---------Porto Rico
Laning, Clarence E.---Hancock, O.
Le Vine, Aaron----Orange, N. Y.
Lawter, Raymond S.-Auglaize, O.
Liles, Marshall----------Green, O.
Lentuch, Israel------Kings, N. Y.
Matsumoto, Geo. K.--------Hawaii
Mangs, Albert C.-New York, N. Y.
Malina, Urique--------------Peru
McLeod, L. A.----------Cook, Ill.
Marshall, Wm. M.------Carroll, O.
McIntyre, N. K.------Fayette, Pa.
Maurer, M. H.---------Carroll, O.
Moses, Merton S.-------Carroll, O.
Meiers, Geo. R.--Berkshire, Mass.
Moon, Argyle J.--Montgomery, O.
Moberg, Clifford-----Warren, Pa.
Mazzulla, Michael, Jr.-Orange, N.Y.
Melstrom, John-----Cuyahoga, O.
McCombs, A. R.---Columbiana, O.

Murphy, Edw. F.--Franklin, Mass.
Morrison, P. J.--------Beaver, Pa.
McLean, L. G.--Chesterfield, S. C.
Magid, Leo-----New York, N. Y.
Miller, Ralph-------Todd, Minn.
Main, E. E.-----------Hardin, O.
Micklewright, Jos.-------Lucas, O.
Messinger, Earl P.-Fairfield, Conn.
Masedo, Jacques -----------Brazil
Minervino, Joas------------Brazil
McNally, W. M.----Lawrence, Pa.
Myers, W. W.---------Hardin, O.
McNally, Marguerite-Lawrence, Pa.
Magid, Bessie---New York, N. Y.
Meckle, Howard E.--Trumbull, O.
Mull, Reid-----------Richland, O.
Matz, Philip---------Kings, N. Y.
Mulholland, Benj. R.---Hardin, O.
Mirza, J. Y.---------------Persia
McKean, Harry------Hancock, O.
Musgrove, Otis O.----Hancock, O.
Mootz, Paul R.--------Putnam, O.
Maxwell, Russell V.--Williams, O.
Miller, Bernard S.---Mercer, N. J.
Meeker, Geo. E.--------Hardin, O.
McKee, Loyd F.------Jefferson, O.
Manion, Jno. S.--Hartford, Conn.
Mushaw, Jas. B.-------Hardin, O.
Merkt, Stanley---------Wayne, O.
Marshall, W. D.--------Butler, O.
Musser, Harry G.-----Hancock, O.
McGuire, Leroy---Franklin, Mass.
Newkirk, Arthur C.-Neuces, Texas
Nogueira, M. --------------Brazil
Newman, Ralph-----Crawford, O.
Neiter, Alex. ------------Hungary
Nobrega, Clovis------------Brazil
Newmeyer, J. Howard--------
Allegheny, Pa.
Nelson, David A.-Hampton, Mass.
Neuenschwander, Reuel--Allen, O.
Neuenschwander, Lloyd--Allen, O.
Newcomb, Horace---Cuyahoga, O.
Ogan, Dewitt-----Muskingum, O.
Osborn, Robert-----Van Wert, O.
Perkins, Paul---------Potter, Pa.
Pugh, Reuben-------Hancock, O.
Parkin, H. E.---------Butler, Pa.
Porath, Jos. R.------Howard, Ind.

Pleam, Geo. A.-----Berkshire, Pa.
Pocrase, Oscar------Kings, N. Y.
Polin, Harry------------Cook, Ill.
Pereira, Jose M.-----------Brazil
Pierce, Allen E.---Delaware, N. Y.
Paule, Andrew F.-----Richland, O.
Patton, Walter H.------Huron, O.
Poling, Paul-----------Hardin, O.
Porter, Earl---------Trumbull, O.
Parker, Damon---------Marion, O.
Page, Warder-----Champaign, O.
Quigley, Ray L.-------Geaugua, O.
Reed, Ranier F.------King, Wash.
Riley, Jno. A.------------Erie, O.
Ronk, Howard------Ulster, N. Y.
Reynolds, Chauncey E.--------- Steuben, N. Y.
Reed, Harvey A.--Marion, W. Va.
Ridgeway, C. M.-------Hardin, O.
Rice, Paul---------Tuscarawas, O.
Robinson, H. H.------Hancock, O.
Ringer, Samuel A.-------Stark, O.
Ruebel, Sherman----Hamilton, O.
Reich, Benj.--------------Poland
Ribeiro, F. C.-------------Brazil
Reynolds, Claude------Putnam, O.
Riley, Victor------------Allen, O.
Robertson, Howard N.--Carroll, O.
Rosen, Harry---New York, N. Y.
Reeder, Wm.------St. Joseph, Ind.
Rodgers, Ralph R.------Marion, O.
Ryback, B. J.-------Cuyahoga, O.
Riley, Jno. A.-----------Huron, O.
Rinker, Geo. F.--------Marion, O.
Richeson, Gustavus B.---Knox, O.
Ribeiro, M. G.-------------Brazil
Rhodes, H. A.--------Fayette, Pa.
Storch, Maurice--New York, N. Y.
Snyder, Elmer E.------Summit, O.
Saunders, Jos.------St. Louis, Mo.
Shrider, H. L.-----------Allen, O.
Spitler, Wm. A.-------Putnam, O.
Steen, Paul P.-------Mercer, N. J.
Samuels, Cyrus----Clearfield, Pa.
Sih, L.--------------------China
Shew, Frank L.---------Blair, Pa.
Steese, A. Raymond------Stark, O.
Sarisky, J. A.-------Mahoning, O.
Swihart, H.------------Stark, O.

Slonaker, J. A.-Westmorland, Pa.
Schaaf, Ray D.-------Hancock, O.
Selpien, Carl-----------Cook, Ill.
South, C. K.-----------Henry, O.
Shakely, H. H.-----Allegheny, Pa.
Shaefer, G. D.--------Paulding, O.
Snider, Ernie B.---Gratiot, Mich.
Summers, J. E.-----Frederick, Me.
Schoonover, Merritt---Hardin, O.
Silverman, H.-------Ashtabula, O.
Seely, Chas. M.------Columbia, Pa.
Smith, Carl C.------Lawrence, Pa.
Sterling, C. L.--------Jefferson, O.
Sarkin, Wm.---------Kings, N. Y.
Shanabarger, W. B.------------ Randolph, W. Va.
Schmidt, Arnold A.------Stark, O.
Saramago, J. R.----------Portugal
Shanklin, Marie--------Hardin, O.
Stevens, Marvin-------Portage, O.
Shirley, Lynn---------Putnam, O.
Shaeffer, Noah-------Paulding, O.
Specht, C. A.-------Allegheny, Pa.
Scothorn, Wm. A.--------Allen, O.
Siegel, Harry S.-----Orange, N. Y.
Skinner, Ransome P.----------- Chautauqua, N. Y.
Sprinkle, Rex----------Adams, O.
Shanabarger, Mills----Hardin, O.
Sherman, Donald C.--Hancock, O.
Sernaker, David-New York, N. Y.
Stair, Jesse-----------Hardin, O.
Schaaf, Ray D.-------Hancock, O.
Simon, Paul R.--------Putnam, O.
Schmidt, Solomon------Putnam, O.
Spilka, Alfred---------Hardin, O.
Shaw, J. Carroll------Hancock, O.
Sutton, Paul J.--------Marion, O.
Salzberg, Stanley----Hancock, O.
Shafer, Jos. R.-------Adams, Ind.
Stevenson, Glenn------Hancock, O.
Sorg, Warren J.---------Stark, O.
Stephens, Raymond---Auglaize, O.
Sturm, Ralph D.--------Shelby, O.
Staker, Elmer--------Auglaize, O.
Seitz, Sherwood--------Clinton, O.
Smith, Walter S.--------Allen, O.
Schwab, E. Vaughn--Cuyahoga, O.
Schneider, Harold P.---Lucas, O.

Sampsell, Chas.------Mahoning, O.
Spar, Dayle-----------Hardin, O.
Stultz, Elmer J.--------Huron, O.
Schneider, Edw.--------Mercer, O.
Starner, Alfred------Holmes, O.,
Stroup, Ellsworth--------Allen, O.
Sanborn, Chas. H.---Ashtabula, O.
Sherman, Reubel----Hamilton, O.
Schiedt, E. A.-------Cuyahoga, O.
Tornes, J. R.---------------Cuba
Tavares, Octavio-----------Brazil
Trigoso, Marcus-------Peru, S. A.
Trumble, L. A.--------Bay, Mich.
Thompson, Jas. K.-----Beaver, Pa.
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Todd, David K.-------Richland, O.
Thew, Leroy,----------Marion, O.
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Wenger, Byron----------Stark, O.
Wolford, Jacob-------Hancock, O.
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Kunkel, Jos.--------Cuyahoga, O.
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Morgart, Edwin--------Seneca, O.
Montville, Hurst-------Hardin, O.
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Parshall, Aleta---------Hardin, O.
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Rockey, Leila----------Hardin, O.
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Ream, Alma-----------Hardin, O.
Straub, Helen----------Hardin, O.
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Sink, Edwin------------Hardin, O.
Sterritt, Veldren-------Marion, O.
Seitz, Mary-------------Adams, O.
Schlup, Myrtle---------Hardin, O.
Smith, Carlton V.--Clearfield, Pa.
Schafer, C. W.-------Richland, O.
Sowash, Paul--------Richland, O.
Stockton, Herman W.-----Allen, O.
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Tu, Ming L.----------------China
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Welty, Orrin S.----------Allen, O.
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Weadlock, E. J.---------Logan, O.
Young, Linn-----------Hardin, O.

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Bull, Flossie	Champaign, O.
Bedrosian, Koharig	Armenia
Basinger, Helen	Allen, O.
Eibling, Cora	Hardin, O.
Fidler, Truman	Madison, O.
Huff, Frances W.	Allen, O.
Hamilton, Ruth	Allen, O.
Ingledue, Grace	Allen, O.
Knapp, Geraldine	Trumble, O.
Leatherman, Elsbah	Allen, O.
Lorenz, Jennie	Sheboygan, Wis.
Margruder, Ruth	Coshocton, O.
McGuffey, H. C.	Hardin, O.
Nealy, Helen	Hardin, O.
Radenbaugh, Virtle	Paulding, O.
Rudolph, Maurine	Allen, O.
Sickle, Mildred	Marion, O.
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Taylor, Manelvia	Paulding, O.
William, Esther	Licking, O.

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Ames, Mildred	Hardin, O.
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Beuttel, Bettie	Germany
Briggs, Irene	Hardin, O.
Brown, Ruby	Hardin, O.
Barne , Vera	Belmont, O.
Betz, Lela	Hardin, O.
Benson, Beatrice	Allen, O.
Brewer, Ruth	Hardin, O.
Baker, Mamie	Hardin, O.
Bayman, Guy	Marion, O.
Brenneman, Treva	Allen, O.
Beck, Ruth	Crawford, O.
Baker, Mildred	Marion, O.
Cunningham, Isabel	Hardin, O.
Cook, Nina	Ashtabula, O.
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Church, Austin	Hardin, O.
Church, Ruth	Hardin, O.
Clark, Lavon	Hardin, O.
Clark, Leola	Hardin, O.
Davis, Nina	Hancock, O.
Dunkin, Helen	Hardin, O.
Detrick, Dorothy	Hardin, O.
Estill, Lydia	Van Wert, O.
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Friedly, Dorothy	Hardin, O.
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Gallman, Gladys	Mercer, O.
Greer, Dorothy	Hardin, O.
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Griffe, Elizabeth	Hardin, O.
Hayden, Zeresh	Hardin, O.
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Hoffman, Condace	Hardin, O.
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Hover, Lois	Allen, O.
Helms, Seona	Allen, O.
Hayden, Lucie	Hardin, O.
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Jones, Gladys	Hardin, O.
Jeffries, Alma	Darke, O.
James, Isabelle	Hardin, O.
King, L. F.	Hardin, O.
Krebs, Tilla	Hardin, O.
Lorenz, Jennie	Sheboygan, Wis.
Lewis, R. W.	Ramsay, Minn.
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Mollenberg, K. E.	Wood, O.
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Morrison, Clara	Hardin, O.
McGinnis, Wilma	Hardin, O.
McElree, Bernice	Hardin, O.
May, Nevo	Mercer, O.
Markley, Ruth	Hardin, O.
McCleery, Mrs. C. H.	Guernsey, O.
McNeil, Viola	Monroe, N. Y.
Motter, Esther	Hardin, O.

Noggle, Ruth--------Jackson, Mo.
Neff, Iva------------Hancock, O.
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Price, Ruth-----------Hardin, O.
Park, Joan Leigh------Beaver, Pa.
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Parsons, Martha---Tucker, W. Va.
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Rumbaugh, Beatrice---Hardin, O.
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Trimmer, Grace--------Huron, O.
Turner, Mrs. F. F.------Hardin, O.
Valentine, Nellie-------Shelby, O.
Wilson, Ruth----------Hardin, O.
Wingerd, Christian------Stark, O.
Weber, Walter------Van Wert, O.
Warren, Ethel---------Hardin, O.
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Bernaldi, Vincent-McKeesport, Pa.
Bowdle, Thoburn--------Allen, O.
Beck, Ruth C.--------Crawford, O.
Bowersmith, M.--------Hardin, O.
Copeland, Don C.-----Auglaize, O.
Dobbins, Raymond------Hardin, O.
Dumbauld, Carl--------Hardin, O.
Ewing, Paul------------Allen, O.
Goodhue, Howard ------------ Wheeling, W. Va.
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Herr, Peter------------Green, O.
Hay, Herbert L.-------Hardin, O.
Lanigan, Herbert----Madison, O.
McElroy, Madeline----Hardin, O.
Stevens, S.-------------Allen, O.
Smith, Geo. D.---------Hardin, O.

INDEX

- Accounting 83
- Administration, Committee 12
- Admission,
  - Liberal Arts 25
  - Education 47
  - Engineering 63
  - Law 76
  - Pharmacy 87
- Advanced standing 26
  - Description courses 30, 50, 57, 83
- Aid to Students 17
- Algebra, courses in 39, 71
- American History 38
- Astronomy 40
- Athletics 19
  - Department of 107
- Band 19, 99
- Banking 83
- Biblical Literature 31
- Biology 31
- Board and Rooms, cost of 16
- Board of Trustees 6
- Botany 32, 60
- Buildings 13
- Business courses 81
- Cadet Uniform, expense of 105
- Calculus 40
- Calendar 2
- Chemical Engineering 70
- Chemistry, courses in 33
- Christian Associations 18
- Choral Society 98
- Civil Engineering 64
- College of
  - Commerce 78
  - Education 46
  - Engineering 62
  - Expression 102
  - Law 73
  - Liberal Arts 24
  - Music 93
  - Preparatory School 55
  - Pharmacy 86
- College courses 27, 28
- Commerce, College of 78
- Committees of
  - Faculty 12
  - Trustees 7
- Curricula
  - Liberal Arts 28, 29
  - Education 48, 49
  - Preparatory 56, 57
  - Engineering 65, 66, 68, 69, 70, 71
  - Law 74
  - Commerce 81, 82
  - Pharmacy 89
  - Music 94, 95
  - Expression 102
- Debating Clubs 18
- Degrees, see above each curriculum.
- Directions, General 4
- Discipline 20
- Dismissal 20
- Drafting, Structural 70
- Drawing 52
- Economics 34
- Education, College of 46
- Electives 45
- Expression 102
- Engineering, College of 62
- Employment 18
- Employment Bureau 54
- Electrical Engineering 65
- English 35
- Entrance Committee 12
- Entrance Requirements,
  - Liberal Arts 26
- Expenses 21
- Evidences of Christianity 31
- Faculty 8
- Farm, University 16
- Fees,
  - Laboratory 22
  - Special 22
  - Special Examination 22
  - Graduation 23
    - See several colleges

French 41, 61
Geology 33
Geometry 40, 58
German 40, 60
Grading, Method of 30
Graduates, Roll of 109
Graduation, Liberal Arts 30
Graduation Fee 23
  See several colleges.
Greek 36
Gymnasium 14
Harmony 96
Hebrew 36
Historical Sketch 13
History, courses in 37, 59
Italian 41
Laboratories 14
  Pharmacy 87
Laboratory, Fees 22
Latin, Courses in 38, 60
Law, College of 73
Law, Commercial 84
Lettering 85
Library 15
Library Committee 12
Liberal Arts, College of 24
Literary Societies 18
Literature, courses in 35
Loan Fund 17
Logic 41
Location 5
Mathematics 39, 58
Matriculation 21
Mechanical Engineering 67
Military Department 104
Military Drill 20
Modern Language 40, 60
Moot Court 75
Moral and Religious Culture 20
Municipal Engineering 69
Museums 15
Music, College of 93
  Courses in 94
  Regulations 101
Music, Public School 98
Musical Organizations 98
Opening, Time of 2
Orchestras 19, 99
Organization 5
Penmanship 85
Pharmacy, College of 86
  Courses in 89
Philosophy 41
Physical Training 19, 20
Physical Training for
  Women 108
Physics 42, 59
Physiology 59
Physical Geography 59
Political Science 42
Practice Teaching 53
Preparatory School 55
  Courses in 56, 57
Professional Training 47
Psychology 44
  Educational 50
Prizes 18
Refunding 23
Rapid Calculation 84
Registration 4
Rhetoric 35, 57
Rooms 16
Rooming Houses for Women 4
Religious Culture 20
Scholarships 17
  Music 100
Short Courses Commercial
  Business 81
  Stenography 81
Sociology 44
Spanish 41
Spelling 84
Stenography 84
Student Aid 17
Student Activities 18
Students, List of 117
Student Publications 19
Structural Drafting 71
Summer School 53
Science, Course in 29
Tuition 21
Trigonometry 30
Trustees, Board of 6
Typewriting 84
University,
  Band 19
  Buildings 13
  Committees 12

  History of ---------------- 13
  Location ----------------- 5
  Organization -------------- 5
  Farm --------------------- 16
Vacation, Summer ----------- 2
Voice Culture -------------- 94
Work of Students----------- 18
Women, Rooms for---------- 4
Women, Physical Training----108
Y. M. C. A.---------------- 18
Y. W. C. A.---------------- 19
Zoology ------------------ 32

SUMMER SCHOOL
1919

OHIO NORTHERN UNIVERSITY
SUMMER SCHOOL

ALBERT EDWIN SMITH, Ph.D., D.D.,
President
JOHN DAVISON, Ped.D.,
Dean of College of Education

Accredited by the State Department of Public Instruction

Opening Dates June 2, 1919, and July 14, 1919

Special Courses Offered

1. Professional and Academic Courses for Elementary Teachers.
2. Professional and Academic Courses for High School Teachers, Principals, and Superintendents.
3. Courses in Agriculture for Teachers of all Grades.
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5. Courses in Public School Music for Teachers and Supervisors.
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7. Courses in Physical Training and Educational Games.
8. Courses for the Training of Commercial Teachers.
9. Courses in College Preparatory Subjects.
10. Special Courses in Primary Methods and Rural Education.

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Lincoln Chautauqua

Ben Greet Woodland Players

Illustrated Lectures

Normal Training Required By Law

Under the laws of Ohio, Normal training for Elementary Teachers is to increase each year until 1921. "Eighteen weeks is the requirement for 1918, twenty-four weeks for 1919, thirty weeks for 1920, and thirty-six weeks for 1921 and thereafter."

For High School teachers the amount is to increase each year until 1920: "Twenty-four weeks is required for 1918, thirty weeks for 1919, and thirty-six weeks for 1920 and thereafter."

Those who wish to meet the eighteen weeks requirement should enter April 21st, and classes will be organized at that time to suit their needs. Those who desire to put in twenty-four weeks must enter March 10th at the opening of the Spring Quarter. Those desiring twelve weeks must enter June 2nd, and those desiring six weeks may enter July 14th. These arrangements have been made to accommodate all classes of teachers.

"Certificates of Professional Instruction" will be issued to all students completing the necessary number of weeks of normal work as official evidence that the work required has been successfully done.

Professional Courses For Teachers

The regular Professional Courses will be given in Psychology of Elementary and High School Subjects; History of Education; Principles of Elementary and Secondary Education; Elementary and High School Methods both General and Special; Rural Education; Special Primary Methods in Reading, Language, Games, and Construction Work; Home Economics and Household Arts; Physical Education; Observation and Practice Teaching; Methods in Composition and Literature; General History and Methods; American History and Methods; European History in the Last Half Century; The Teaching of History and Civics; Educational Hygiene; Elementary and Secondary School Administration; The Teaching of Agriculture and Agronomy; Public School Music for Teachers and Supervisors; Rudiments and Sight Singing; Piano, Harmony, Violin, and Organ; The Teaching of Bookkeeping, Penmanship, Commercial Arithmetic, Shorthand, and Typewriting; Public Speaking, Platform Reading, and Dramatic Training and such other branches as may be called for by a sufficient number.

In the presentation of all the professional courses three lines of development are followed: A rapid review of the fundamentals, advanced knowledge of the subjects, and a consideration of the best methods of teaching them. Professional credit will be given for the completion of the following:

SUBJECT	TIME	PROFESSORS
Arithmetic	8:30 a. m.	Younger
Grammar	9:30 a. m.	Schoonover
Geography	1:00 p. m.	Insley
U. S. History	9:30 a. m.	Niswander
English Composition	2:00 p. m.	Freeman
Orthography	7:00 a. m.	Schoonover
Agriculture	1:00 p. m.	Insley
Physiology, Hygiene	7:00 a. m.	Raabe
Music	7:00 a. m.	Killeen
Drawing	7:00 a. m.	Long
Physical Training	2:00 p. m.	Wilson
Latin	4:00 p. m.	Whitworth
English Comp. H. S.	7:00 a. m.	Freeman
Modern Languages	3:00 p. m.	Groth
Physics	8:30 a. m.	Berger
Chemistry	1:00 p. m.	Sleesman
Botany	1:00 p. m.	Raabe
Mathematics H. S.	8:30 a. m., 1 p. m.	Rothrock
Biology	8:30 a. m.	Loy

Summer Lecture Courses

The Summer Lecture Courses which have long been a popular feature of the work will be continued this year. **Dr. F. B. Dyer, for nine years Superintendent of the Boston Schools,** will be present during the week beginning June 16th. Dr. Dyer is recognized everywhere as one of the greatest educational leaders in the nation. His rich experience in school administration makes his lectures of vital interest and inestimable value to teachers. His great lecture, "How We Learn," is alone worth twice the cost of the Summer School to any teacher.

Dr. L. H. Beeler, of Chicago, whose lectures last year were so helpful and inspiring, has consented to come again for the week beginning July 21st. He is devoting his life to helping teachers and whatever he can do to give them personal aid is always freely and gladly done. No teacher can afford to miss any of his lectures. Tickets will be issued to all Summer Students and those who attend the lectures will be given professional credit, as usual, if found worthy, by passing the necessary examinations.

Expenses

Good board costs from $3.00 to $3.75 a week, and furnished rooms, two in a room 75 cents to $1.25 each a week.

Tuition for the Summer Quarter $16.00.

Tuition for six weeks term $10.00.

The total expenses for a term of six weeks need not exceed $35.00.

All students paying the regular tuition fee are admitted to the general classes in Penmanship and Rudiments of Music without extra charge.

* * *

Ohio Northern originated the Summer School idea. It has been for many years a popular place for teachers to spend their vacations in professional study. Better advantages are offered for the Summer of 1919 than ever before. Teachers can enter March 11th for the Spring Quarter, or June 2nd for the Summer Quarter and receive credit for work done in all departments of the University.

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OHIO NORTHERN UNIVERSITY

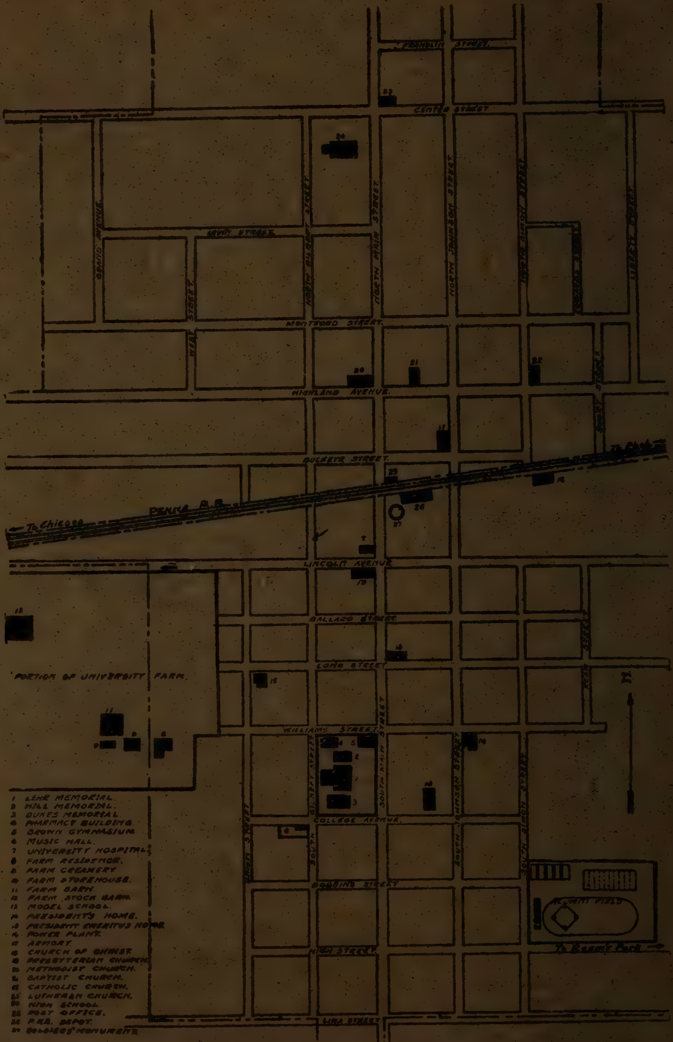
UNIVERSITY OF ILLINOIS LIBRARY

CATALOGUE

JUNE, 1920

Announcements for 1920—21

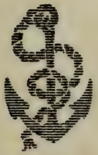
UNIVERSITY BULLETIN. Published in June, July, September, November, January, April *and* May by the Ohio Northern University, Ada, Ohio. Entered as second-class matter July 3rd, 1917, at the postoffice at Ada, Ohio, under the Act of Congress of July 16, 1894.


FRANKLIN STREET
CENTER STREET
IRVIN STREET
GRAND AVENUE
WEST STREET
NORTH GILBERT STREET
NORTH MAIN STREET
NORTH JOHNSON STREET
NORTH SIMON STREET
LIBERTY STREET
MONTFORD STREET
HIGHLAND AVENUE
BUCKEYE STREET
PENNA R.R.
To Chicago
To Pitts
LINCOLN AVENUE
BALLARD STREET
LOME STREET
WILLIAMS STREET
COLLEGE AVENUE
DOBBINS STREET
HIGH STREET
LIMA STREET
SOUTH GILBERT STREET
SOUTH MAIN STREET
SOUTH JOHNSON STREET
SOUTH SIMON STREET
UNION STREET
PORTION OF UNIVERSITY FARM
ALUMNI FIELD
To Reams Park
N.
1 LEHR MEMORIAL.
2 HILL MEMORIAL.
3 DUKES MEMORIAL.
4 PHARMACY BUILDING.
5 BROWN GYMNASIUM.
6 MUSIC HALL.
7 UNIVERSITY HOSPITAL.
8 FARM RESIDENCE.
9 FARM CREAMERY
10 FARM STOREHOUSE.
11 FARM BARN.
12 FARM STOCK BARN
13 MODEL SCHOOL.
14 PRESIDENT'S HOME.
15 PRESIDENT EMERITUS HOME
16 POWER PLANT.
17 ARMORY.
18 CHURCH OF CHRIST
19 PRESBYTERIAN CHURCH
20 METHODIST CHURCH.
21 BAPTIST CHURCH.
22 CATHOLIC CHURCH.
23 LUTHERAN CHURCH.
24 HIGH SCHOOL.
25 POST OFFICE.
26 P.R.R. DEPOT.
27 SOLDIERS' MONUMENT

Ada and the O. N. U.

OHIO NORTHERN UNIVERSITY

Annual Catalog



June 1920

CALENDAR

1920

June 1, Tuesday----------Summer Quarter Begins
June 1, Tuesday----------First Special Summer Term Begins
July 9, Friday----------First Special Summer Term Ends
July 12, Monday----------Second Special Summer Term Begins
August 2, to August 14----------Preregistration Week
August 14, Saturday----------Summer Quarter and Second Special Summer Term Ends.

SUMMER VACATION

September 6, Monday----------Registration Day for 1920-21
September 7, Tuesday----------Fall Quarter, 1920-21 Begins
September 28, Tuesday----------College of Pharmacy Opens
November 15, to November 24----------Preregistration Week
November 24, Wednesday----------Fall Quarter Ends
November 25-November 29----------Thanksgiving Recess
November 30, Tuesday----------Winter Quarter Begins
December 23-January 3----------Christmas Vacation

1921

February 14, to February 24----------Preregistration Week
February 24, Thursday----------Winter Quarter Ends
March 1, Tuesday----------Spring Quarter Begins
March 26-April 2----------Easter Vacation
May 16, to May 25----------Preregistration Week
May 16, Tuesday----------Junior-Senior Day
May 22, Sunday, (10:00 A. M.)----------Baccalaureate Day
May 24, Tuesday, (8:30 A. M.)----------Class Day and Alumni Day
May 25, Wednesday, (9:00 A. M.) ----------Commencement Day
May 31, Tuesday----------Summer Quarter Begins
May 31, Tuesday----------First Special Summer Term Begins
July 8, Friday----------First Special Summer Term Ends
July 11, Monday----------Second Special Summer Term Begins
August 4, to August 10----------Preregistration Week
August 13, Saturday----------Summer Quarter and Second Special Summer Term Ends.

SUMMER VACATION

September 5, Monday----------Registration Day for 1921-22
September 6, Tuesday----------Fall Quarter, 1921-22 Begins
September 27, Tuesday----------College of Pharmacy Opens

ERRATA

Page 18, Paragraph 4—
"$3.00 to $3.75" should read "$3.50 to $5.00."
"$.75 to $1.25" should read "$1.25 to $2.50."

Page 23, Paragraph 3—
"$77.00" should read "$97.00"

Page 37, Paragraph 4—
Chemistry III. has been omitted.

Page 127, Title Page—
Charles Wesley Bolen's name has been omitted.

ADDENDA

The following appointments have been made to our faculty since going to press:

WALTER GRAY,
B. S. in Ed. (O. N. U.), A. M. (O. S. U.)
Professor of Psychology and Sociology

ANDREW SCOTT STAUFFER,
B. S. (O. N. U.), B. S. in Ag. (O. S. U.)
Director, School of Agriculture

FREDERICK W. MOLITER,
B. S. in E. E. (O. N. U.), E. E. (O. N. U.)
Professor of Electrical Engineering

WILLIAM HENRY OBERLIN
Chief Custodian of Buildings

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credits rank them, pursue studies as many terms as their plans and means allow, and are duly credited on the records with the work done. On satisfactorily completing the required number of hours in the selected curriculum the appropriate degree is granted, the diploma bearing the date of Commencement Day of the year in which the work is finished.

June
June 1
July
July 1
Augus
Augus

Septem
Septem
Septem
Novem
Novem
Novem
Novem
Decemb

Februar
Februar
March 1
March
May 16,
May 16,
May 22,
May 24,
May 25,
May 31,
May 31,
July 8,
July 11,
August 4
August 1 , ------Summer Quarter and Second Special Summer Term Ends.

SUMMER VACATION

September 5, Monday----------Registration Day for 1921-22
September 6, Tuesday------------Fall Quarter, 1921-22 Begins
September 27, Tuesday-----------College of Pharmacy Opens

OHIO NORTHERN UNIVERSITY BULLETIN

New Series ADA, OHIO, JUNE, 1920 Vol. XIII, No. 1

Ohio Northern's Mission

The Ohio Northern University invites to her privileges all worthy young men and women, especially the self-dependent, who are ambitious for a liberal education. Her entire regime has in view the creation and maintenance of an atmosphere inspirational and congenial to plucky young people of both sexes whose lot in life has taught them the worth of hard labor and close economy. Jeans and broadcloth, homespun and silk have equal chance. The atmosphere is thoroughly democratic, a lead-characteristic being the marked camaraderie of the students, a majority of whom are relying mainly on their own pluck and push. Thorough practical instruction in all the departments is provided at a minimum expense to the student.

Unique Features

The school year is forty-eight weeks in length, divided into four terms, designated, respectively, Fall Winter, Spring and Summer Quarters. Instead of measuring time and work by Freshman, Sophomore, Junior and Senior years, credit is based on number of hours of class work done in each subject. At the beginning of the Winter Quarter the Junior and Senior classes are formally organized under the direction of a member of the faculty. Those having at least 80 quarter hours and 80 points are admitted to the Junior organization; those having at least 140 quarter hours and 140 points are admitted to the Senior organization. The student must present a certificate from his Dean.

Students enter at the beginning of any quarter (except in Pharmacy), find their places where certificates or examination credits rank them, pursue studies as many terms as their plans and means allow, and are duly credited on the records with the work done. On satisfactorily completing the required number of hours in the selected curriculum the appropriate degree is granted, the diploma bearing the date of Commencement Day of the year in which the work is finished.

A three-year curriculum leading to a Bachelor's degree means 144 weeks of fifteen hours of recitations a week. This is the same time that is required elsewhere in four-year curriculums based on thirty-six weeks a year with a maximum of fifteen hours a week.

An Alumnus has figured that by completing a course in the Ohio Northern University, a student gains one year in time and one thousand dollars in money .

General Directions

Any one intending to enter the University and desiring to arrange matters beforehand will address, "The University, Ada, Ohio."

A satisfactory assignment to classes can best be made at the beginning of the fall quarter; however, students are admitted at the opening only of any quarter.

The applicant for a degree, coming from another college, is required to spend at least thirty-six weeks in residence.

On arrival the newcomer is expected to report at once at the University office to receive needed information regarding lodging places and boarding houses, obtain a card of matriculation and arrange his work.

Registration Regulations

The Registration Days are Monday and Tuesday of the first week of each quarter. Failure to register on those days will subject the delinquent to the payment of a special registration fee of one dollar for each day's delinquency.

Registration is counted the first exercise; failure to register at the appointed time, or to report in the classes promptly after each vacation or recess or on the day following registration is counted as five absences.

After matriculation (and also at the beginning of each quarter), the student is given a registration card, which he carries to the Dean of his department. The Dean advises and directs what subjects are to be pursued during the quarter and indicates these, together with his approval, on the registration card. The student then presents the registration card to the Treasurer of the University, pays the required fees, and is given a receipt which becomes a ticket of admission to the classes named thereon.

The Deans will be in their offices on Monday and Tuesday to advise students concerning their work for the quarter.

Rooming Houses for Women

Young ladies coming from homes outside of Ada, are required to room in houses kept exclusively for women. The University will assist in securing rooming places for all young ladies, and carefully superintend all things pertaining to their welfare.

Requests for Credits

To insure prompt attention, requests for credits, certificates of graduation, class standing, recommendation, et cetera, should be accompanied by a stamped self-addressed envelope.

Each student is entitled to one copy of his credits; 50 cents is charged for each additional copy.

Seat of Ohio Northern

Ada, the seat of the Ohio Northern University, is an attractive little city in Northwestern Ohio, on the Pittsburg, Fort Wayne & Chicago Division of the Pennsylvania Railroad. Fifteen miles east of Lima and twenty-eight west of Upper Sandusky. Railroad connection is made at Lima with the Baltimore and Ohio and the Lake Erie & Western division of the New York Central Lines and the Erie Railroad. Connection is also made at Upper Sandusky with the Hocking Valley, at Forest, sixteen miles east, with the Big Four, and at Dunkirk, ten miles east, with the Ohio Central Lines.

Lying on the great watershed separating the waters tributary to the Ohio and the Mississippi from flowing into the Great Lakes, Ada, with its population of three thousand, has an elevation above sea-level as high as any in the State, with healthful climate, sanitary conditions well guarded, and an abundant supply of excellent water from drilled wells. The town is unsurpassed in healthfulness and freedom from epidemics. Numberless forest trees line avenues and adorn premises, affording a delightful retreat during the warm summer months.

The paved streets, cold water plant, electric light and natural natural gas evidence the wide-awakeness of the citizens in the matter of public utilities and city improvements.

Organization

The Ohio Northern University is organized into the following departments:

1. Arts and Sciences
2. Education
3. Engineering.
4. Pharmacy
5. Music
6. Law
7. Agriculture
8. Commerce
9. Expression
10. Preparatory
11. Military Instruction
12. Physical Training

N. B. For special information address:
THE SECRETARY OF THE UNIVERSITY, ADA, O.
Address all personal letters intended for the President,
DR. ALBERT EDWIN SMITH, Personal

BOARD OF TRUSTEES

Elected by the Conference

Initus		Exitus
1910	MR. S. D. HAZLETT	Ada, 1920
1915	MR. H. E. MEYERS	Springfield, 1920
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1914	REV. CYRUS M. VAN PELT, D.D.	Cincinnati, 1924
1918	REV. WILLIAM E. PUTT, D. D.	Cincinnati, 1924
1918	MR. EDGAR J. BROOKHART, L.L.D.	Celina, 1924

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1916	HON. FRANK B. WILLIS, L.L. D.	Delaware, 1921
1917	HON. W. E. YOUNG, L.L. B.	Akron. 1922
1918	DR. AUSTIN S. McKITRICK	Kenton, 1923
1919	HON. JOHN F. KRAMER, L.L. B.	Mansfield, 1924
1910	REV. J. WESLEY HILL, D.D., L.L. D.	N. Y. City, 1925

At Large, Elected by the Trustees

1911	HON. HENRY CLEWS, PH. D., L.L. D.	N. Y. City
1917	DR. GEORGE FRANKLIN GETTY	Los Angeles, Calif.
1920	RALPH PARLETTE, LITT. D.	Chicago, Ill.
1920	BENJAMIN A. GRAMM, M. A.	Lima, Ohio
1920	BISHOP WILLIAM F. ANDERSON	Cincinnati, Ohio

Officers of the Board

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S. D. HAZLETT, Secretary and Treasurer.

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Agriculture: S. D. Hazlett, D. H. Bailey, S. A. Bowman, C. E. Schenk, A. E McKitrick, E. J. Brookhart, W. E. Putt.

Bunildings and Grounds: S. A. Bowman, J. H. Clark, S. D. Hazlett, Wm. A. Wiant, J. F Kramer, H. E. Myers, W. E. Young, W. W. Morrall.

Cabinet and Library: D. H. Bailey, Joseph H. Edwards, S. D. Hazlett, James R. Colley, J. F. Kramer, C. E. Schenk, W. E. Young, A. S. McKitrick, W. W. Morrall.

Degrees: S. A. Hoskins, James R. Colley, J. W. Hill, George E. Whitney, W. W. Morrall, W. E. Putt.

Executive: S. A. Bowman, J. W. Hill, Wm. A. Wiant, C. M. Van Pelt, A. E. Smith (ex-officio), E. J. Brookhart.

Finance: Joseph H. Edwards, S. A. Bowman, S. D. Hazlett, C. M. VanPelt, E. J. Brookhart.

Instruction: J. H. Clark, D. H. Bailey, S. A. Hoskins, A. E. Smith (ex-officio), George E. Whitney, H. E. Myers, A. E. McKitrick, W. E. Putt.

ALUMNI OFFICERS

President----------------------Jesse LaDow, Mansfield, Ohio
Vice-President----------------Mrs. Mary Hickernell, Ada, Ohio
Secretary-Treasurer--------------Thos. J. Smull, Ada, Ohio

Executive Committee:

Elmer E. McClain, R. H. Raabe, Mrs. Carrie S. Ames

Election Committee

F. L. Berger, E. E Long, Elizabeth Burkholder-Wiseley

FACULTY AND ADMINISTRATION OFFICERS

HENRY SOLOMON LEHR, PH.D. 404 Union
President Emeritus.
A.B., Mt. Union College, 1871; A.M., 1873; Ph.D., University of Wooster, 1897.

ALBERT EDWIN SMITH, D.D., PH.D., 502 South Johnson
President (on the William W. Edwards Foundation).
A.B., Ohio Wesleyan University, 1887; Ph.D., 1898; D.D. 1906.
President of Ohio Northern, 1905—

JOHN DAVISON, M. S., PED D.
Vice President and Dean of College of Education. (1916—)
B.S., Ohio Normal University, 1889; M.S., 1892; M. Lit., 1902; Ped.D., 1912.

THOMAS JEFFERSON SMULL, Archt., C. E. 301 S. Main
Executive Secretary. (1918—)
C.E., Ohio Northern 1904; Archt., 1906.
Dean of College of Engineering 1905—1917.

HENRY WHITWORTH, A.B., 219 East Montford
Treasurer and Entrance Examiner. (1919—)
Professor of Latin. (1900—1919). Dean of College of Liberal Arts. (1910—1919).
A.B., Ohio Wesleyan University., 1877.

MARGARET ELEANOR WHITWORTH, B.S. 219 E. Montford
Registrar. (1917—). Instructor in Algebra and Geometry (1919—).
B.S., Geneva College, 1894.

RICHARD HOLMES SCHOONOVER, AM., B.D., 115 S. Johnson
Professor of Greek, Hebrew and Church History. (1901—)
Director of Preparatory School. (1913—)
A.B., Northwestern Ohio Normal School, 1884; A.M., 1887; A.B., Ohio Wesleyan, 1888; B.D., Drew Theological Seminary, 1889.

CHILDE HAROLD FREEMAN, B.S., 317 W. University
Professor of Rhetoric and English Literature. (1901—)
B.S., Ohio Normal University, 1901.

LENIX CRAIG SLEESMAN, Ph.G., Ph.C., 702 S. Gilbert
Professor of Chemistry. (1906—)
Ph.G., Ohio Northern, 1905; Ph.C., 1906.

FRANK LEWIS BERGER, A.B., B.S., 121 E. Lehr
Professor of Physics. (1911—)
A.B., Ohio Northern, 1910; B.S., University of Chicago, 1914.

WALTER DAVID NISWANDER, A.M., 524 S. Johnson
Professor of History. (1917—)
B.Ph., B.Ped., Ohio Northern, 1914; M.A., Ohio State University, 1917.

DAVID A. WEIR, A.M., 927 S. Main
Professor of Political Science and Economics. (1919—).
A.M., Ohio State University, 1920.

WILLIAM CLAUDIUS GROTH, A.M., 122 W. Montford
Professor of Modern Languages. (1905—1917, 1919—)
Student in Kiel University, 1882—1884; A.M., Ohio Northern, 1918.

HARVEY EVERT HUBER, A.M., 226 E. Lincoln
Professor of Biology and Geology. (1913—1917,1919—).
Dean of College of Liberal Arts. (1920—).
A.B., Ohio Northern, 1909; A.M., Yale University, 1912.

CARRIE ADEL WILSON, B.E., 534 S. Johnson
Instructor in Paidology, Principles of Teaching and Methods. (1914—).
B.E., Ohio Northern, 1908.

CHARLES ADDISON MILLER, C. E., 118 S. Johnson
Professor of Municipal Engineering. (1911—17); Civil (1918-)
Dean of College of Engineering. (1918—)
C.E., Ohio State University, 1907.

JOHN ALFRED NEEDY, B.S., in M.E., 412 N. Gilbert
Professor of Mechanical Engineering. (1916—)
B.S., in Mechanical Engineering, University of Kentucky, 1911.

WIGHTMAN S. BECKWITH, A.M., 718 S. Main
Professor of Mathematics. (1918—).
A.B., Emory College, 1909; A.M., Harvard, 1917.

GUY HERBERT ELBIN, C.E., 308 E. Lincoln
Professor of Municipal Engineering. (1919—).

Professor of Electrical Engineering. (1920—).

EMMETT E. LONG. B.C.S. 621 S. Johnson
Commercial Arithmetic and Penmanship. (1907—)
Director of Commercial College. (1918—).
Student at Zanerian Art College, 1909. B.C.S., Ohio Northern, 1911.

MARY MIRIAM BLAIN, Grad. in Ped. and Com. 507 S. Gilbert
Instructor in Stenography and Typewriting. (1920—).

Instructor in Agriculture and Horticulture. (1919—).
Director of School of Agriculture.

JAMES NYE, LL.B., 911 S. Main
Professor of Law. (1919—).
Dean of College of Law. (1919—).
LL.B., Ohio Northern, 1908.

JOHN WALLACE THOMPSON, B.S., LL.B., 410 S. Gilbert
Professor of Law. (1919—).
B.S., Ohio Northern, 1906; LL.B., 1906.

ELLAHUE ANSILE HARPER, A.M., LL.B., 702 S. Main
Professor of Law. (1918—).
A.B., Ohio Normal University. 1890; B.L., Ohio Wesleyan, 1893; A.B., Ohio Wesleyan, 1898, LL.B., Ohio State, 1900.

RUDOLPH HENRY RAABE, Ph.G., Ph.C., 316 S. Gilbert
Professor of Pharmacy. (1911—).
Dean of College of Pharmacy. (1917—)
Ph.G., Ohio Northern, 1910; Ph.C., 1911.

HARRY LEE HAMSHER, Ph.G., 316 S. Gilbert
Instructor in Pharmacognosy. (1919—).
Ph.G., Ohio Northern, 1918.

FREDERIC THOMAS KILLEEN 209 S. Johnson
Professor of Voice and Director of A. D. Juilliard School of Music. (1916—).
Graduate of University of Michigan, School of Music, 1905; Assistant in Voice, 1905—1907; Pupil Sig. De Macchi and Harriet Ware, New York City 1907—1909.

MARY CLYTICE PHILLIPS 714 S. Main
Instructor in Piano and Pipe Organ. (1917—).
Graduate in Piano, Ohio Northern, 1916.

ETHEL WARREN 724 S. Main
Assistant Instructor in Piano. (1919—).
Graduate in Piano, Ohio Northern, 1917.

CARRIE WILLIAMS BREWER 620 Union
Instructor in Violin. (1920—).
Conservatory of Music, Cincinnati, 1915.

BLANCHE HOWEY PALMER, B.S., 213 S. Gilbert
Instructor in Preparatory, History and English. (1919—).
B.S., Ohio Northern, 1909.

MRS. MAE DEMING McCOPPIN 431 North Gilbert
Director of School of Expression.

ESTHER PATRICK, (Ohio State).
Instructor in Domestic Science.
(Summer Quarters, 1916—).

Professor of Psychology and Sociology.

GEORGE ANDERSON, D.D., 306 S Main
Y. M. C. A. Secretary.
Student Welfare Director. (1919—).
(On the Stambaugh Estate Foundation).

Assitant in Bookkeeping and Stenography.

WALTER L. LYNDE, 520 S. Johnson
Assistant in Electrical Laboratory.

Assistant in Mechanical Laboratory.

MERRILL WISEMAN, 411 S. Johnson
Assistant in Physics.

ROBERT OSBORN, 821 S. Gilbert
Assistant in Chemistry.

MARY ELIZA THOMAS 432 S. Gilbert
Librarian.
B.S., Ohio Normal University, 1894.

FLO L. CRONBAUGH 310 East University
Stenographer and Office Secretary.

Chief Custodian of Buildings.

GEORGE HUNT PENDLETON SOLOMON, 425 S. Union
Assistant Custodian of Buildings.

CHESTER LEROY STERLING, 302 S. Main
Power Plant Engineer.

ALVA E. ROCKWELL 319 W. University
Farm Superintendent.
Ped. Ohio Normal University, 1899.

FACULTY ORGANIZATION

DR. A. E. SMITH, Chairman
R. H. SCHOONOVER, Secretary
MARGARET E. WHITWORTH, Registrar.

Committees

Administration: Dr. Smith, Dr. Davison, Secretary Smull, Professor Whitworth.

Athletics: Secretary Smull, Professors Sleesman, Killeen, Long, Miller, Niswander.

Catalag and Editing: Professor Whitworth, Secretary Smull, Dr. Smith, Dr. Davison, Professor Freeman

Entrance: Professors Whitworth, Huber, Miller, Raabe, Schoonover, Nye.

Finance: Dr. Smith, Secretary Smull, Treasurer Whitworth, Mrs. Whitworth.

Fraternities: Professors Sleesman, Miller, Turner, Harper.

Graduation and Degrees: The Deans and Principal Preparatory School.

Library: Professors Freeman, Beckwith, Weir, Groth, Killeen, Harper.

Literary Societies: Professors Raabe, Niswander, Berger, Elbin, Nye, Tompson.

Loan Fund: Professor Whitworth, Secretary Smull, Dr. Smith.

Military: Commandant Schmidt, Professors Long, Sleesman, Schoonover, Kline, Secretary Smull.

Physical Education: Professor Bolen, Miss Wilson, Miss Birch, Professors Long, Needy.

Student Publications: Secretary Smull, Professors Freeman, Huber, Berger, Miss Wilson.

Student's Welfare: Dr. Anderson, Dr. Davison, Miss Wilson, Mrs. Whitworth, Mrs. McCoppin, Mrs. Palmer, Professor Neely.

Summer School: Dr. Davison, Professors Freeman, Huber, Secretary Smull.

Historical Sketch

On August 14, 1871, in a three-story brick building erected in the campus where the Lehr Memorial now stands, the Northwestern Ohio Normal School, with Henry Solomon Lehr at its head, was formally opened "for the instruction and training of teachers in the science of education, the art of teaching and the best methods of governing schools."

The name was changed to Ohio Normal University and a charter from the State issued on May 19, 1885, the policy and management remaining the same as before.

The school was under private control from the outset until September, 1898, when the owners sold to the Central Ohio (now the West Ohio) Conference of the Methodist Episcopal Church the real estate, personal property and equipment belonging to the school. Under the new administration, as fast as existing contracts permitted, the departments, theretofore semi-independent, were reorganized under one management, and the respective heads, designated deans, were placed on salary instead of commission. At the same time instruction in the main school was made departmental, with the head teacher in each department director thereof. The new charter was dated May 24, 1889.

In 1904 the institution was re-named Ohio Northern University, and the charter amended December 31, 1907.

In the spring of 1910 the Trustees recognized the College of Liberal Arts as distinct from the Normal School, and appointed a dean in charge The courses leading to the scholastic degrees were strengthened, the standard number of hours required for the bachelor degrees adopted, and the conferring of the Master's degree discontinued until such time as the resources of the institution should permit organization for postgraduate instruction.

Location and Buildings

The **Campus** lies in a resident portion of the village, a few blocks south of the Pennsylvannia Station.

In the midst of the campus stand four memorial buildings: On the south side, the **Dukes Memorial** with commodious classrooms, offices and laboratories, devoted to science, mathematics and engineering; in the center, the **Lehr Memorial**, in which are located the executive offices, the Y. M. and Y. W. C. A. rooms, the library and reading rooms, the apartments of Law and Commerce departments and a magnificent auditorium for chapel and other public meeetings; to the north, the **Hill Memorial**, devoted to language, history, philosophy and education; in this building are the mechanical and electrical laboratories and the attractive halls of the Franklin and Philomathean literary societies.

In the northeast angle of the campus is located **Brown Memorial**, fitted and equipped for gymnasium and armory and used as an assembly hall for social functions. Recently a wing has been added, with equipment and special appliances for instruction in Domestic Science.

Pharmacy Hall, in the northwest angle, especially arranged and equipped for the College of Pharmacy, contains also the spacious assembly room of the Adelphian Literary Society.

Just outside, southwest of the quadrangle, is **Music Hall** with assembly room, offices and private practice rooms.

While all the buildings contain attractive, well arranged rooms, lighted and heated from the University's central steam heating and electrical lighting plant, the Lehr and Hill buildings especially, are thoroughly modern in their appointments and sanitary equipment, and are fire-proof.

Laboratories and Museum

The Biological Laboratories, located on the second floor of Dukes Memorial, are well lighted and equipped with water, gas and electricity. The department makes use of a lantern to illustrate lectures and other phases of the work In the laboratories is found an ample supply of reagents, stains and glassware, also oil-immersion lens, dissecting microscopes, camera lucida, micrometer eye-pieces, a large rotary microtome, hand microtome, paraffin bath, microscopic slides, models, charts, and preserved materials for study—enough material and apparatus to do modern work in the courses offered.

An experimental greenhouse of ample size with a laboratory attached has been erected recently. This plant house offers facilities for many phases of class work and laboratory practice in Biology, Horticulture and Pharmaceutical Botany. An aquarium also furnishes much material for study.

The University was recently the recipient of a modern X-raymachine from Dr. A. S. McKitrick, of the McKitrick hospital, Kenton, Ohio. The machine is of the type used for all kinds of biological and hospital X-ray work. This piece of apparatus will be especially valuable to pre-medical students and others in the science departments.

Dr. McKitrick, the donor, is an alumnus of the institution, and also a member of the Board of Trustees.

The Chemical and Physical Laboratories are large, well-lighted, and equipped with natural gas and the latest conveniences. In the general chemical laboratory are one hundred and twelve lockers with first-class outfits, including all apparatus necessary for thorough individual work. The physical laboratory has ample accommodation for more than one hundred and fifty students, with abundant apparatus for individual experimentation both in preparatory and college Sophomore physics.

The Pharmaceutical and Dispensing Laboratories, occupying the entire basement of Pharmacy Hall, are supplied with modern appartus and desk arrangement; the equipment affording every facility for thorough individual work in practical chemistry and the various pharmaceutical preparations. The equipment includes a complete outfit for gold and silver assaying and other metallurgical work. In the "specimen room" is an interesting exhibit of all the crude drugs of materia medica, a complete line of U. S. P. chemicals, a fine case of salts and alkaloids, and another of biological specimens, such as serums, antitoxins, and the like. On the first floor a well-lighted microscopical laboratory is supplied with on outfit of compound microscopes, accessories and appliances for special work in pharmacal micro-technique.

The Museum contains numerous specimens and collections for illustrating geology and the biological sciences. In the geological alcove are found all the common minerals and ores, many rare ones, meteorites, plant and animal fossils representing the chief orders of geological importance, the shells and skeletons of many living molluscs and vertebrates. The zoological alcove exhibits about 200 birds, representing one or both sexes of nearly all of those common to this region, all animals, native to Ohio, many kinds of snakes, and several hundred specimens, of the orders of invertebrates preserved in jars. For illustration in anatomy a human skeleton and structural models of various organs are at hand.

Recently, through good will and generosity there has come into the possession of Ohio Northern a private collection of rare and valuable geological specimens, the result of years of enthusiastic study and research on the part of the donor, Mr. E. R. Webber, of Kenton, Ohio. "May his tribe increase!"

Library

In the disastrous fire of 1913 the University lost its library, in its stead there is being established by purchase and gift a new and better one, in apartments built for the purpose, on the second floor of Lehr Memorial Here in spacious and well-lighted quarters have been provided a reading room accomodating one hundred and fifty students, and a stack room with capacity for 60,000 volumes. To the south, on the same floor, is located the Law Department with a legal reference library of some 2000 volumes. The use of the library is free to all students.

Since books are costly and anything like an adequate equipment means a large investment of money, all the friends of the institutions are earnestly invited to assist by making donations of up-to-date books and by generously contributing funds. The departments of history, literature, sciology, economics and philosophy especially suffered from the fire. Any contributions of libraries and single volumes practically serviceable in these and the other fields of learning will be gratefully received and acknowledged. Those desiring to make donations and not knowing just what would meet the need, kindly communicate with the heads of departments concerning the matter.

Athletic Field

Within a block and a half of the Campus, lie the Athletic Grounds, owned and controlled by the University, on whose area of several acres the Baseball Diamond, the Football Gridiron, the Running Tracks, the Lawn Tennis Courts, and the Military Parade and Contest Field are located.

University Farm

The University possess a tract of land within a block and a half of the campus, containing ninety acres of rich, productive soil under cultivation, devoted to the practical demonstration of farm methods and problems. There the Agricultural Department building is to be erected.

By action of the Board of Trustees a desirable piece of property a square from the Campus has been purchased as a residence for the President of the University.

Rooms, Boarding and Home Comforts

Board in private families costs from $3.00 to $3.75 a week, and furnished room, two in a room, 75 cents to $1.25 each a week

The town is lighted with electricity; coal is the chief fuel, and many houses are heated by gas or hot-air furnaces.

The comfort and convenience of the student is looked after by a welfare director; when sick he is cared for and advised regarding his best interests.

Aid to Students

Loan Fund. The Board of Education of the Methodist Episcopal Church lends money to members of that church taking a regular course in school, who have been in attendance long enough to merit a recommendation from the Faculty. No interest is charged if the debt is paid within five years from the time of leaving school, but a payment of $5.00 each year must be made on the principal, after the applicant quits school. the only security required is a recommendation from a quarterly conference. Loans are made at the beginning of each quarter. Application should be made two weeks before the opening of the quarter and no applicant can be received later than the close of the first week of the quarter. The maximum amount allowed to each applicant is $100 a year. An applicant must have been in attendance at least one quarter.

Scholarships. The University has received through generous donors four scholarships of $1000.00 each, the income of which, amounting to $50 to $60 per year, is to be devoted to the assistance of worthy students. The recipients of these incomes may be chosen by the donors and when not so chosen, shall be selected by the President and the Faculty of the University, and must have been in attendance at least one term before receiving aid. The scholarships are as follows:

1. The J. T. Cunningham Scholarship, M. E. Cunningham, Mrs. L. A. Cunningham, and George T. McCoppin, Ada, Ohio.

2. The George Franklin Getty Scholarship, by George F. Getty, Los Angeles, Calif.

3. The James E. and Caroline Purvis Scholarship, by James S. Purvis, Bremen, Ohio.

4. The Parlette Scholarship, by Ralph Parlette of Chicago, Ill.

5. The Pleasant Hill Society of the Roundhead Circuit of the Methodist Episcopal Church.

Prizes. Through the President of the University, prizes of $15 and $10 are awarded to winners in an annual oratorical contest among the three Literary Societies.

Miss Pearl A. M. Stahl offers $15 and $10 prizes annually to the two successful members of the Philomathean Society.

Dr. George W. Crile, of Cleveland, an alumnus, has permanently provided for $15 and $10 prizes for the winners in the Adelphian Literary Society.

Mr. George F. Getty. '79, offers $15 and $10 prizes annually to the members of the Philomathean Literary Society winning honors in debate.

Hon. S. A. Hoskins, Columbus, O., $15 and $10 prizes for two years to the members of the Franklin Literary Society winning honors in debate.

Work. Many students in the University earn a part of their expenses by working as waiters, janitors, and at other occupations in the town and vicinity, and at the same time carry full work in studies.

Student Societies and Activities

Literary Societies. Three Literary Societies, chartered, and meeting in furnished assembly rooms, are maintained by the students exclusively—the Franklin, Philomathean and Adelphian.

Debating Clubs. Under the supervision of the societies, clubs are organized each term for practice in debate, extempore speaking, and parliamentary law.

The Ohio Northern Debating Association, a student organization, arranges for and engages in forensic contests between Ohio Northern and other institutions. Membership is open to any student interested in the object of the association, irrespective of department. A certain per cent of the Student Activity fee is appropriated to the maintenance of forsenic work. Debaters are selected and assisted in their trainby a faculty committee. As a mark of distinction the University letter is awarded to those participating in intercollegiate contests.

Christian Associations. The Young Men's and Young Women's Christian Associations have enthusiastic organizations in the University and wield a most wholesome influence on the lives and habits of the students.

The Young Women's Christian Association has a membership including about ninety per cent, of all the young women in attendance at the school.

A devotional meeting open to all the University women is held weekly. At the beginning of each quarter Bible and Mission Study classes are organized under efficient teachers.

Both Y. M. C. A. and Y. W. C. A. Bible Study classes and religious meetings are open respectively to all men and women enrolled in the University.

Band and Orchestra. The Military Department has an organized band which meets for practice one hour each day.

Students playing any band or orchestral instrument are urged to bring their instruments with them and become members of this organization. They may substitute the band practice for military drilll and receive a credit of five quarter hours for three quarters of service, including contest week.

Clubs. The Universal Club is a spirited organization of the foreign students attending the University. The object is to promote good feeling among the representatives of the different nationalities, to familiarize its members with the customs, resources and view points of the several countries, to afford practice in the use of English and to establish a social centre for mutual help and encouragement.

A number of live departmental associations are maintained.

Publications. The **Annual** is a sumptuous serio-comic volume published by each out-going class, and is always awaited with eagerness and treasured as a souvenir of college days.

Athletics. College teams in baseball, fooball, basketball, and track athletics are maintained. Interdepartmental, interclass and intersociety sports are also encouraged.

The department of Athletics is managed by a Board of Directors, comprised of the Faculty Committee on Athletics (appointed by the President of the University), the Athletic Director, and a student member for each college sport; the student members being elected by the Athletic Association, a student organization, to which any student of the University may belong.

A fee of $2.00 per quarter is charged each student for the support of athletics and other student activities. No fee is charged for the Summer Quarter. Upon the payment of this fee, the student receives a ticket of admission to all intercollegiate athletics events free of charge.

Ohio Northern became a member of "Ohio Conference", better known as the "Big Six" of Ohio, on October 13, 1916.

Military Drill. Every able-bodied male student intending to complete any of the University curriculums, is required to drill and recite in this department one-half of the length of time called for by his curriculum of study in any department. For further information see "Military Department." Gymnasium drill may be taken instead of military drill.

Discipline

The opportunities and advantages of the University are offered to all sincerely desiring to develop the best in themselves, and aiming at a broad culture and a thorough preparation for useful service.

Self-government is made the key-note in discipline. All are treated as ladies and gentlemen until they prove themselves otherwise. Incorrigible and morally corrupt persons are summarily dismissed from the institution. Every possible help is afforded in the formation of right habits, but those who cannot govern themselves are not wanted. This institution does not pose as a "reform school."

Regular attendance upon class work, prompt response to duty, and thoroughness in all assigned tasks are insisted on, not more for their bearing on scholarship than for their effect upon conduct anl life.

Moral and Religious Culture

Much attention is given to awakening and fostering an aspiration to attain to the highest type of Christian manhood and womanhood.

While the University is the property of the West Ohio Conference of the Methodist Episcopal Church and is denominational in its ownership and control, it is in no sense sectarian. Students of all religious denominations are received on equal terms and treated with equal consideration. They are urged to identify themselves with the work and participate regularly in the services of the church of their choice. The six churches of the city cordially welcome students to their religious and social meetings and bible classes.

Assemblies

Convocations are held each school day, except Monday, from 8:00 to 8:30 a. m. The aim of which is not only to recognize the duty and privilege of daily devotions, but to foster a university spirit by bringing together into one assembly the students of the several departments to listen to practical addresses and talks from members of the faculty and others, and to be entertained by those connected with the departments of Music and Expression.

At the public functions of Commencement week, members of the faculty and of the graduating class wear academic costume in keeping with their degrees. The University colors are orange and black.

EXPENSES

Matriculation

No matriculation or entrance fee is required to enter the University. Some schools advertise free tuition, but it will be found that entrance fees with them amount to more than tuition fees ere, a fact not to be overlooked by those selecting a school thorough, yet less expensive.

Tuition Rates

In the Departments of Arts and Sciences, Education, Engineering, Commerce, Agriculture and Preparatory School, tuition rates are as follows:

For one quarter, (12 weeks), in advance	$ 25.00
For two quarters, in advance	49.00
For three quarters, in advance	73.00
For four quarters, in advance	77.00

In the College of Law:

For one quarter (12 weeks), in advance	$33 1-3

In the College of Pharmacy:

Tuition for 32 weeks, including drugs, chemicals and laboratory fee, in advance	$125.00

In the College of Music, School of Expression, and School of Fine Arts:

Tuition rates in detail given in the description of the respective departments.

All students paying the regular tuition fee are admitted to the general classes in Rudimental Music without extra charge.

Laboratory Fees

Fees to cover cost of chemicals and other materials used in the laboratories are charged each term as follows:

Preparatory and College. Inorganic Chemistry I. and II., per quarter, $5.00; all others, $6.00. Preparatory Physics, $3.00, College Physics, $4.00. Biology, Botany and Zoology, each $2.50. Physiology, $1.00. Preparatory Botany, $1.00. Domestic Science, $8.00. Horticulture, $2.00. Agriculture, $2.00.

Engineering. Plane Surveying, Field Engineering, Railroad Engineering, Mechanical Engineering, each $3.00; Electrical, $4.00. Electrical IX, $7.00. Cement Laboratory, Machine Shop, Hydraulic Laboratory, $1.50.

Special Fees—Bookkeeping and Stenography

A fee of $5.00 is charged on entering the Office Practice and Banking Classes for use of ledgers, commercial paper and other supplies.

A fee of $4.00 is charged for use of typewriter twelve weeks, one hour a day; two hours per day, twelve weeks. $7.00. A fee of $10 is charged for use of post-machine and calculator per quarter. All who pay the above fees are entitled to free use of the Burroughs Adding Machine. Others are charged $1.00.

Graduation Fees

Neatly executed diplomas are awarded to those who complete any regular course of study. The diploma fee is $5.00, for paper, $6.00 for vellum and $7.00 for parchment.

Candidates for any degree are required to pay full tuition in graduation quarter.

Refunding

In case of withdrawal from college, or change of course, within two days of registration, $1.00 will be charged. After two days, refunds will be made on the following basis: Before the end of two weeks, 80%; before the end of four weeks, 60%; before the end of of six weeks, 40%; after the sixth week no refund of fees will be made. Receipts are not transferable.

COLLEGE
OF
ARTS AND SCIENCES

Harvey Evert Huber, Dean

ADMISSION

General Remarks

Applicants for admission to courses in the College of Liberal Arts, leading to a degree, must have, in addition to the preacademic or grammar school studies, four years of high school preparation, or a full equivalent, including all subjects specifically required for entrance upon the several courses offered. Applicants must complete the required preparatory work, if their certificates from other schools show that this work has not been finished

Those not desiring to earn a degreee may enter any department and pursue the studies they choose, if, on consultation, the head of the department is satisfied that they have sufficient preparation to pursue the work succesfully. Such applicants are classified as "Special Students." Should they later desire to graduate, they may do so, on condition of passing all the requirements including the preparatory work.

Credits in the entrance subjects are accepted from "first-class" High Schools, Academies, or Preparatory Schools. No certificates for private work are accepted, and the Entrance Committee, while disposed to weigh credits in all work done in completing a "well-planned high school course," reserves the right to reject any or all grades from a second or third class High School.

The applicant must present credentials duly made out and signed by the proper official of the school from which he comes, and showing in detail (1) the text book used in each subject, (2) the amount completed, (3) the number of weeks spent thereon, (4) the length in minutes of the recitation period, and (5) the mark or grade secured. Blanks for this purpose may be had by addressing "The University" and enclosing a self-addressed, stamped envelops.

The applicant must see that the certificate is correct before presenting it, for credits not on the certificate will not be considered.

Entrance Requirements

A unit is the credit given for pursuing a subject for five periods a week thruout a school year of thirty-six weeks, each period not less than 40 minutes. Its time equivalent is 120 clock-hours. At least 15 such units are required for admission to collegiate rank. These fifteen units must include English, 3 units; mathematics, 2½ units; history 1 unit; natural sciences 1 unit; and one of the following languages: Latin, Greek, French, German or Spanish, 2 units; the remainder of the requirements is elective, and may be satisfied in general by any accredited secondary school subjects.

Units from High Schools will be accepted as follows:

English	3 to 4 units
Greek	1 or 2 units
Latin	2 to 4 units
German	1 or 2 units
French	1 or 2 units
Spanish	1 or 2 units
History	1 or 2 units
Civics	½ unit
Economics	½ unit
Adv. Arithmetic	½ unit
Algebra	1 or 1½ units
Geometry	1 or 1½ units
Plane Trigonometry	½ unit
Physics	1 unit
Physiography	½ or 1 unit
Physiology	½ or 1 unit
Biology	½ or 1 unit
Agriculture	½ or 1 unit
Chemistry	1 unit
Botany	½ or 1 unit
Geology	½ or 1 unit
Astronomy	½ or 1 unit
*Bookkeeping	½ or 1 unit
*Commercial Law	½ unit
*Stenography	½ or 1 unit
*Shop-Work	1 unit
*Freehand Drawing	½ or 1 unit
*Com. Geography	½ or 1 unit
*Domestic Science	1 unit
*Music	½ or 1 unit

*Not more than a total of four units out of the last eight subjects will be accepted.

Students taking a part or all of the preparatory work in Ohio Northern will follow the schedule set forth under "The Preparatory School."

Admission to Advanced Standing

An applicant from another college, seeking for advanced standing, must present (1) evidence of honorable dismissal, (2) a full record of the applicant's preparation for college, (3) a transcript of his college record, subject by subject, with the grade obtained in each and the hours credited. He should submit a catalogue of his college, bearing his name and of the issue current at the time of his admission to that college. Credit for advanced standing must be secured within the first and second quarters of the student's residence.

The Committee on Admission reserves the right of rejecting subjects foreign to the college curriculum.

Advisers

On his admission to college rank each student is placed in charge of an adviser. This adviser, a member of the faculty, is appointed by the dean of the department in which the student is enrolled.

The duty of the adviser is to counsel the student in regard to the planning of courses, the selection of studies, and to aid him in the problems of his college life and work.

This adviser retains oversight over the student assigned to him, until the student has finished 90 quarter hours of work. At the end of 90 quarter hours the student should elect the department in which he desires to complete his major work, and the professor in charge of that department then becomes his adviser.

COLLEGIATE COURSES

The regular courses of instruction offered in the College of Liberal Arts are classified in the following departments:

Agriculture
Biblical Literature and Christian Religion.
Biological and Geological Science
Chemistry
Economics
Education
English
Greek and Hebrew
History
Latin
Mathematics
Modern Languages
Physics
Philosophy and Psychology
Political Science
Social Science

From the courses offered in the departments named above, schedules are arranged, consisting of prescribed and elective courses and leading to the degrees of A.B. and B.S.

To aid the student in planning major and minor courses, the following grouping is set forth:

DIVISION A

Group I.

Major: Bible and Christian Religion
Minors: Psychology
Philosophy

Group II.

Major: English Language and Literature
Minors: English History
Latin or French

Group III.

Major: History
Minors: Economics
English
Political Science

Group IV.

Major: Latin Language and Literature
Minors: Greek, Modern Language
European History

Group V.

Major: Modern Language and Literature
Minors: Ancient or Modern Language, History

Group VI.

Major: Philosophy and Psychology
Minors: Bible and Christian Religion, Education

DIVISION B

Group VII.

Major: Physics
Minors: Chemistry, Mathematics

Group VIII.

Major: Mathematics
Minors: Physics, Astronomy

Group IX.

Major: Chemistry
Minors: Physics, Biology
Mathematics

Group X.

Major: Biological Science
Minors: Chemistry, Physics,
Sociology

Group XI.

Major: Political Science
Minors: Economics, Education,
History

Group XII.

Major: Economics and Sociology
Minors: Political Science, History
Psychology, Biology

Credits for the following are required af all candidates for degrees:

English	18	Psychology	9
Foreign Language	15	Political Science	9
History	9	Sociology	9
Mathematics	5	English Bible	10
Chemistry	15	Biology 9 or Physics	12

Courses Open to Freshman

Biology 1, 2, 3;
Chemistry 1, 2, 3;
Physics 9, 10, 11;
English 1, 2, 3, 4;
History 1, 2, 3;
Economics 1, 2, 3;
Mathematics 1, 2, 3, 4;
Latin 5, 6, 7 (if four units have been presented as entrance credits.)
Greek 1, 2, 3;
German 6, 7, 8 (if two units have been presented as entrance credits.)
French 6, 7, 8 (if two units have been presented as entrance credits.)

Schedules

Besides the required courses common to both baccalaureate degrees, the candidate for a degree must complete in a logical sequence a major of not less than 27 quarter-hours and a minor of not less than 18 quarter-hours, to be selected from a group in one division; and an orderly sequence of at least 15 quarter-hours in the other division (this constitutes the second minor). In addition to the required courses and the major and minor courses, the student may select, with advice, enough free electives from either or both divisions to bring total up to 180 quarter-hours.

The following is a suggestive schedule arranged by quarters:

LEADING TO THE DEGREE OF BACHELOR OF ARTS

	First Year		Second Year		Third Year	
First Quarter	College Rhetoric I.	3	Survey English Poetry	3	Sociology I.	3
	Western Europe I.	3	Psychology I.	3	American History I.	3
	Chemistry I.	5	Gov't and Politics I.	3	Life of Christ	5
	Latin	5	Biology I. or	3	Municipal Gov't I. or	3
			Physics IX.	4	History of Philosophy I.	3
			Elective	3 or 2	Elective	1
Second Quarter	College Rhetoric II.	3	Survey English Prose	3	Sociology II.	3
	Western Europe II.	3	Psychology II.	3	American History II.	3
	Chemistry II.	5	Gov't and Politics II.	3	Municipal Gov't or	3
	Greek or	5	Biology II. or	3	History Philosophy II.	3
	German or	3	Physics X.	4	Apostolic Age	5
	French or	3	Elective	3 or 2	Elective	1
	Spanish	3				
Third Quarter	Western Europe III.	3	Psychology III.	3	Sociology III.	3
	Chemistry	5	Gov't and Politics III.	3	American History III.	3
	Greek or	5	Biology III. or	3	Municipal Gov't III.	3
	German or	3	Physics XI.	4	Literary Criticism	3
	French or	3	Poetics	3	Economics I.	5
	Spanish	3	Elective	3 or 2		
	Elective	1 or 2				
Fourth Quarter	Latin	5	Latin	5	Economics II.	5
	Plane Trigonometry	5	Greek or	5	Ethics	5
	Greek or	5	German or	3	Elective	3
	German or	3	French or	3		
	French or	3	Spanish	3		
	Spanish	3	Elective	7 or 5		
	Elective	2 or 0				

Dropping or Changing a Course

In case a student desires to drop or change a course, it must be done within seven days after registration in any quarter, and with the consent of his dean.

Marks and Examinations

The credit value of a course is expressed in hours, an hour of credit being given for the satisfactory completion of work requiring one class exercise a week for one quarter. It is equivalent to two-thirds of a semester-hour.

The student may not register for more than sixteen hours of work unless he has received a credit of G. in one-half of the work of the preceding quarter, and no lower than Av. in the remainder. The student is advised to carry not more than 18 hours. If the previous record of a student shows that he is able, his Dean may grant extra hours, provided the student petitions the faculty and gains consent thereto.

Grade Marks. Ex. excellent; G. good; Av. average; P. passing; Cn. conditioned; F. failure.

Cn. means that the grade has been withheld because the work of the course has not been completed. Conditions must be removed within the following quarter, if in attendance.

F. means that the student receives no credit whatever for the course, and it must be taken again.

Ex. means that "a student has grasped the subject of a course and, by thinking about it and reacting upon it, has made it his own; it represents industry and thoroughness, as well as natural ability and individual insight."

G. means that "a student has intelligently fulfilled the requirements of a course, but without showing distinct ability and individual insight in reacting upon the subject so as to call it his own."

Av. means "fair work, either steady work of a mediocre quality, or work of a higher quality which is uneven, irregular, or fragmentary."

P. means that the student's work is "barely passing."

Examinations. Mid-term examinations are held at the discretion of each professor. Final examinations are held on Wednesday and Thursday of the last week of each quarter, except in the Spring Quarter, when they fall on Thursday and Friday of the eleventh week.

Conditions of Graduation

As a condition of graduation, a student must complete 185 hours (including military or gymnaslum drill) this being the equivalent of fifteen class exercises a week for twelve quarters.

On credits made after September 1, 1920, as a further condition of graduation, a student must have earned 180 quality points. Points are based on the credit marks, as follows: Each hour of Ex. counts 3 points; of G., 2 points; of Av., 1 point; of P., 0 point; of Cn., -2 points; of F., -3 points.

Diplomas are awarded at the Commencement exercises, which are held but once a year, at the close of the Spring Quarter. Those who have finished their work at the close of any previous quarter are expected, as far as possible, to be present at the commencement exercises. Those whose work, beyond question, will be finished by the close of the Summer Quarter are entitled to all the privileges of the graduating class, but the diplomas are not issued until the requirements are fully met. In order to have a seat and part in the class organization, credentials must be obtained from the Committee on Graduation and Degrees.

PREMEDICAL COURSES

Medical Colleges of first rank demand as minimum requirements for admission that the candidate shall have completed a four-year high school or preparatory course with at least 15 units credit, and the first two years, or equivalent, of a college course which stresses the basal sciences upon which the study of medicine rests.

A total of not less than 90 credit hours (60 semester hours), exclusive of military drill and physical education, are required. Altho 90 credit hours of satisfactory work may admit the student to the study of medicine, yet it is highly recommended by both the faculty of Ohio Northern University and the Medical College faculties that the college work should include three years or 120 credit hours (90 semester hours).

The premedical student may begin the work during the Summer Quarter. However, it is much more desirable that the work be started with the Fall Quarter. The collegiate courses which are required of premedical students are represented in the following schedule:

FIRST YEAR

Fall Quarter	**Winter Quarter**	**Spring Quarter**
English I.	English II.	English III.
French or German	French or German	French or German
Chemistry I.	Chemistry II.	Chemistry III.
Biology I.	Biology II.	Biology III.
Mathematics (Trig)		

SECOND YEAR

Fall Quarter	**Winter Quarter**	**Spring Quarter**
French or German	French or German	French or German
Zoology I.	Zoology II.	Zoology III.
Chemistry (organic)	Chemistry (organic)	Chemistry (quan.)
Physics IX.	Physics X.	Physics XI.
Psychology I.	Psychology II.	Psychology III.

Students who expect to enter Medical Colleges that require Latin for admission should plan to complete two units (Latin Grammar and Cæsar) while in the high school, or in the Preparatory School of Ohio Northern, in addition to the above courses. Students having had a year laboratory course in high school Biology may omit college Biology the first year, and substitute the courses in Zoology. In case this is done Mammalian Anatomy and courses in Sociology of Economics may be substituted for Zoology during the second year.

DESCRIPTION OF COURSES

Department of Agriculture

PROFESSOR__________________

Horticulture 1. Principles of Horticulture I. (Fall) 3 **Hrs.**

Horticulture 2. Principles of Horticulture II. (Winter) 3 **Hrs.**

The principles underlying plant growth and the factors of environment as they are related to orchard, garden, greenhouse and nursery practice are studied. Methods of propagation are taken up in detail. Two hours a week recitation, two hours laboratory.

Horticulture 3. Plant Variations. (Spring) 3 **Hrs.**

A brief discussion of the history of heredity, evolution and plant improvement is followed by a study of the modification of plants under cultivation through varition and mutation. Lectures and recitations.

It is desirable that the study of these courses be either preceded by, or concurrently taken with, either Biology or Botany.

Department of Biblical Literature and Christian Religion

PROFESSORS ____________ AND SCHOONOVER

English Bible 1. Old Testament History I. 5 **Hrs.**

English Bible 2. Old Testament History II. 5 **Hrs.**

A survey study of the history of the Hebrew people as presented in the Old Testament from the period of the conquest and establishment in Canaan to the Maccabean struggle and the close of the Old Testament history. The course embraces a preliminary sketch of the patriarchal period, with a more detailed study of the conquest, the period of the Judges, the united and the divided kingdoms, the exile, the revival of Judah and the beginning of Judaism. Two quarters. Prerequisite: One year of college work.

English Bible 3. Life of Christ. 5 **Hrs.**

Constructive studies in the Life of Jesus. The aim of the course is to enable students to construct their own "Life of Christ" in a true historical perspective. To this end the entire gospel history is studied in a connected way, especial attention being given to the most important political and social features of New Testament times and to the interpretation of critical passages. Prerequisite: One year of college work.

English Bible 4. Christianity in the Apostolic Age. 5 **Hrs.**

This is a constructive study of Christianity from its inception to the close of the Apostolic Era. As far as possible the student is led to construct his own story of the development of primitive Christianity. The study follows in the main the outline of the book of Acts, but the Epistles are also used in so far as they reflect conditions of life and thought during the period. Prerequisite: Life of Christ.

(For other courses in English Bible see "Social Philosophy.")

Christian Religion 1. Evidences of Christianity. **5 Hrs.**

A study of the grounds of Christian belief and an inquiry into the great essentials of the Christian faith, both in its biblical and philosophical aspects. Spring quarter.

Christian Religion 2. Church History. **5 Hrs.**

A survey of the origin, growth, spread and influence of Christianity on the nations of the world. Fall quarter.

Department of Biology

PROFESSORS HUBER AND ____________

Biology 1. General Biology I. **3 Hrs.**

Two hours a week lecture and discussion, three hours laboratory. 9:30—11:30. Fall quarter. M., W., F.

Course I. deals with some of the essential problems found in plant life. Such topics are treated: Cell structure, tissue differentiation, methods of reproduction, food manufacture, metabolism, decay, evolution.

Biology 2. General Biology II. **3 Hrs.**

Two hours a week lecture and discussion, three hours laboratory. 9:30—11:30. M., W., F. Winter quarter. Course II. is given to the study of biological facts as evidenced in the animal kingdom.

Biology 3. General Biology III. **3 Hrs.**

Two hours a week lecture and discussion, three hours laboratory. 9:30—11:30. M., W., F. Spring quarter. Course III. is a contiuation of general Biology II. Prerequisite: Biology II.

Biology 4. General Zoology I. **4 Hrs**

Two hours a week lecture and discussion, four hours laboratory. 9:30—11:30. T., Th. Fall quarter.

Biology 5. General Zoology II. **4 Hrs.**

Two hours a week lectures and discussion four hours laboratory. 9:30—11:30. T., Th. Winter quarter.

Biology 6. General Zoology III. **4 Hrs.**

Two hours a week lecture and discussion four hours laboratory. 9:30—11:30. T., Th. Spring quarter.

These courses in General Zoology constitute a year's work. Representative types form the basis for the study of structure, relationships, developments and distribution. Economic importance is given consideration. Prerequisites:

Courses 1, 2, and 3 in General Biology. Premedical students presenting a year's work in high school Biology, including laboratory exercises, may omit the courses in General Biology upon advice from the instructor.

Biology 7. Botany I. **4 Hrs.**

Two hours a week lecture and quiz. Four hours laboratory . 1:00—3:00. M., W., F. Fall quarter.

Biology 8. Botany II. **4 Hrs.**

Two hours a week lecture and quiz. Four hours laboratory. 1:00—3:00 M., W., F. Winter quarter.

Biology 9. Botany III. **4 Hrs.**

Two hours a week lecture and quiz. Four hours laboratory. I:00—3:00. M., W., F. Spring quarter.

The courses in Botany constitute a year's work. A major portion of the time is devoted to the consideration of the physiological processess of plants; the remainder of the year's work involves a study of the structure, development and evolution of plants. Prerequisites: Biology I., II., III.

Biology 10. Ecology of Plants. **4 Hrs.**

A systematic study of the local flora with special attention to the study of plants in relation to their environment. Illustrated lectures, laboratory and field work. Prerequisites: Botany I., II., III., or equivalent, and Geology I. Summer quarter.

Biology 11. Dendrology. **3 Hrs.**

7:00—11:30. Th. or Sat. Spring quarter.

A laboratory and field course designed to acquaint the student with the trees and shrubs represented in the local fiora, in both the winter and summer conditions. Lectures upon structure, classification, uses, and distribution. Schaffner's Field Manual of Trees is used as a key.

Biology 12. Histological Technique and Biological Methods. **3 Hrs.**

Lecture and class work two hours, laboratory six to eight hours. Summer quarter. Hours to be arranged. A practical course for students who intend to do advanced work and for teachers of biology. Methods of collecting, killing, preserving and preparing material for demonstration and laboratory purposes are considered. Problems which are likely to be met in the biological laboratory of scondary schools are discussed. Those desiring this course will notify the instructor several weeks in advance. Course limited to ten stndents. Laboratory fee to be fixed. Lecture and recitation two hours a week, laboratory six to eight hours. Prerequisites: Courses 4, 5, 6, 7, 8 and 9, or equivalent. Summer quarter, 1921.

Biology 13. Mammalian Anatomy. **4 Hrs.**

A thorough dissection is made of a typical mammal. This course is designed especially for premedical students.

Two hours lecture and quiz, four hours laboratory. Hours to be arranged. Spring quarter. Prerequisites: General Zoology I., II., III.

Department of Chemistry

PROFESSOR SLEESMAN AND ASSISTANT

Chemistry 1. General Inorganic Chemistry I. (Elementary) **5 Hrs.**

Three hours a week lecture and class exercise, four hours laboratory. 8:30. Each quarter. This course is intended for students who have not had preparatory chemistry. Prerequisites: Preparatory Physics.

Chemistry 2. General Inorganic Chemistry II. **5 Hrs.**

Three hours a week lecture and discoussion, four hours laboratory. 10:30. Each quarter.

Courses II. and III. offer a thorough study of the non-metallic and metallic elements and their several combinations. Prerequisites: General Chemistry I. and Preparatory Algebra I.

Chemistry 4. Qualitative Analysis I. **5 Hrs.**

Prerequisites: General Chemistry I., II., III.

Chemistry 5. Qualitative Analysis II. **5 Hrs.**

Prerequisites: Chemistry 4.

Chemistry 6. General Organic Chemistry I. **5 Hrs.**

A thorough study of the structure and constituents of the carbon compounds; the hydrocarbons and carbohydrates with their many addition and substitution products.

Chemistry 7. General Organic Chemistry II. **5 Hrs.**

Continuation of Chemistry 6.

Chemistry 8. Quantitative Analysis. **5 Hrs.**

This work consists of volumetric and gravimetric analysis; the determination of acidity and alkalinity; the analysis of organic and inorganic salts, sugar, syrups, candies, baking powders, milk, urine, etc. A large amount of work is done which the Food and Drug Act demands.

Chemistry 9. Special Chemistry. **5 Hrs.**

This includes the chemistry of the pharmaceutical drugs and their preparation; the analysis of ores, clays, cements, coal and coke, soil, limestone and many other compounds.

Department of Economics

PROFESSOR WEIR

Economics 1. Principles of Economics I. **3 Hrs.**

1:00. Fall quarter.

Economics 2. Principles of Economics II. **3 Hrs.**
1:00. Winter quarter.
Prerequisites: Economics I.

Economics 3. Principles of Economics III. **3 Hrs.**
1:00. Spring quarter.

General introduction to a study of Economic questions. The theories underlying the various problems of economics are first dealt with, followed by a brief survey of the principles of foreign exchangs, money, currency, banking, labor problems and other topics relating to the general subject.

Economics 4. Labor Problems I. (Fall) **2 Hrs.**

Economics 5. Labor Problems II. (Winter) **2 Hrs.**

Economics 6. Labor Problems III. (Spring) **2 Hrs.**

A brief history of the problems and legislation connected with the labor question, followed by a more detailed study of the present day questions and the attempts being made to meet the problems which have arisen. Open to those who have taken, or are taking, Economics 1, 2, 3.

Department of Education

DR. DAVISON

History of Education 1. Before the Middle Ages. **3 Hrs.**
M., W., F. Fall Quarter.

History of Education 2. During the Middle Ages. **3_Hrs.**
M., W., F. Winter quarter.

History of Education 3. Modern Times. **3 Hrs.**
M., W., F. Spring quarter.

History of Education 1, 2, and 3 are required of seniors in both courses in education, but the outside readings are adjusted to the special interests of both classes of students. Open to Liberal Arts students who have had psychology.

Secondary Education 1. Principles and Problems I. **3 Hrs.**
M., W., F., Fall quarter.

Secondary Education 2. Principles and Problems II. **3 Hrs.**
M., W., F. Winter quarter.

Secondary Education 3. Principles and Problems III. **3 Hrs.**
M., W., F. Spring quarter.

The principles of education founded upon psychology, biology and sociology are studied to final working bases. The dogmatical is not attempted, but a rational view-point towards present educational problems is emphasized. Open to Liberal Arts students who have had psychology, and who elect history of education.

Department of English

PROFESSOR FREEMAN

English 1. College Rhetoric I. 3 Hrs.

Exposition and Argumentation. Daily themes. M., W., F. Fall and Spring quarters. Text: Scott and Denny's Paragraph Writing.

English 2. College Rhetoric II. 3 Hrs.

Description and narration. Daily themes. M., W., F. Winter and Summer quarters. Prerequisites: English I.

English 3. Argumentation. 3 Hrs.

A detailed study of the principles of argumentation; practice in brief making and in debating. M., W., F. Winter and Spring quarters. Text: Foster. Prerequisite: College Rhetoric II.

English 4. The Short Story. 3 Hrs

A study of the technique of the short story; reports on required readings; some practice in story writing. M., W., F. Fall quarter. Text: Essenwein's Writing the Short Story. Prerequisite: College Rhetoric II.

English 5. Expository Writing. 2 Hrs.

T., Th. Fall and Winter quarters. Prerequisites: College Rhetoric I. and II.

English 6. Survey of English Poetry. 3 Hrs.

M., W., F. Fall quarter.

English 7. Survey of English Prose. 3 Hrs.

M., W., F. Winter quarter

English 8. Poetics. I. 2 Hrs.

T., Th. Winter quarter. Prerequisites: College Rhetoric and Survey of English Poetry and Prose.

English 9. Poetics II. 2 Hrs.

T., Th. Spring quarter. Prerequisites: College Rhetoric and Survey of English Poetry and Prose.

English 10. Shakespeare I. 3 Hrs.

Histories. M., W., F. Prerequisites: College Rhetoric and Survey of English Poetry and Prose.

English 11. Shakespeare II. 3 Hrs.

Tragedies. M., W., F. Prerequisites: Same as for Shakespeare I.

English 12. Shakespeare III. 3 Hrs.

Comedies. M., W., F. Prerequisites: Same as for Shakespeare I.

English 13. Milton. 3 Hrs.

The poetry of Milton is read and studied; also the Essay on Education and The Areopagitica. M., W., F. Summer quarter. Prerequisites: College Rhetoric and Survey of English Prose and Poetry.

English 14. Nineteenth Century Poetry I. **3 Hrs.**
A survey of Wordworth, Scott, Byron, Arnold, Morris, Swinburne and Rosetta. M., W., F. Prerequisites: College Rhetoric and Survey of English Prose and Poetry.

English 15. Nineteenth Century Poetry II. **3 Hrs.**
A study of Tennyson. M., W., F. Prerequisites: Same as in English 13.

English 16. Nineteenth Century Poetry III. **3 Hrs.**
A study of Browning. M., W., F. Prerequisites: Same as in English 13.

English 17. Nineteenth Century Essayists I. **3 Hrs.**
M., W., F. Fall quarter. Prerequisites: Survey of English Poetry and Prose.

English 18. Nineteenth Century Essayists II. **3 Hrs.**
M., W., F. Winter quarter. Prerequisites: Same as in English 16.

English 19. Prose Fiction. **3 Hrs.**
The development of the novel and its place in literature; critical study. M., W., F. Summer quarter.

English 20. Literary Criticism. **3 Hrs.**
A study of the principles of literary criticism as applied to the various forms of literary expression.

English 21. American Poetry. **3 Hrs.**
M., W., F. Spring quarter.

English 22. American Prose. **3 Hrs.**
M., W., F. Summer quarter.

Geology

PROFESSOR ____________

Geology 1. Dynamical and Structural. **3 Hrs.**
Lectures, class exercises, assigned reading, laboratory work. 8:30. M., W., F. Fall quarter.

A study of the earth's crust, dealing with rock form and structure, and the formation of mineral deposits and mountains, together with a study of the forces past and present which have brought the earth to its present condition. Lectures, recitations and assigned readings, with laboratory work. Prerequisites: Chemistry and Physics.

Geology 2. _ Historical **3 Hrs.**
8:30. M., W., F. Winter quarter.

A lecture and recitation course supplemented by rock collections, fossils and lantern slides. The sequence and distribution of rock strata and the succession of past geologic life, including a discussion of the theories of organic evolution and the evidences of evolution among plants and animals. Prerequisites: Geology I. and Biology I., II. desirable.

Department of Greek and Hebrew

PROFESSOR SCHOONOVER

I. Preparatory Courses

Greek 1.	**White's First Greek Book I.**	**5 Hrs.**
Greek 2.	**White's First Greek Book II.**	**5 Hrs.**
Greek 3.	**White's First Greek Book III.**	**5 Hrs.**
Greek 4.	**Xenophon's Anabasis I.**	**5 Hrs.**
Greek 5.	**Xenophon's Anabasis II.**	**5 Hrs.**

II. Advanced Courses

Greek 6.	**Epic Poetry—Homer's Iliad I.**	**5 Hrs.**
Greek 7.	**Epic Poetry—Homer's Iliad II.**	**5 Hrs.**
Greek 8.	**Lyric Poetry—Selections**	**5 Hrs.**
Greek 9.	**Drama—Selected Plays.**	**5 Hrs.**
Greek 10.	**Hisory—Selected Authors**	**5 Hrs.**
Greek 11.	**Philosophy—Selected Authors.**	**5 Hrs.**
Greek 12.	**Oratory—Selected Orations.**	**5 Hrs.**
Greek 13.	**Sacred Greek—One of the Gospels.**	**5 Hrs.**

Each work mentioned in course 4-13 inclusive, is pursued one quarter. A literary study of the period is a part of each course.

Hebrew 1—3.	**Elementary Courses.**	**5 Hrs.**
Hebrew 4.	**Judges.**	**5 Hrs.**
Hebrew 5.	**Psalms.**	**5 Hrs.**
Hebrew 6.	**Prophetic Writings.**	**5 Hrs.**

Department of History

PROFESSOR NISWANDER

History 1.	**Western Europe I. (Fall)**	**3 Hrs.**
History 2.	**Western Europe II. (Winter)**	**3 Hrs.**
History 3.	**Western Europe III. (Spring)**	**3 Hrs.**

A comprehensive survey of the history from the barbarian invasions to be present time. Both as to content and methods of study, the work is introductory. Part III. will also be offered in Summer quarter of 1921.

Hisory 4.	**English History I. (Fall)**	**3 Hrs.**

History 5. English History II. (Winter) 3 Hrs.

History 6. English History III. (Spring) 3 Hrs.

An introductory study of English from the earliest times to the present; the object being to gain a general knowledge of the subject, or for those specializing in American History or English Literature. It is also recommended for secondary teachers. (Omitted in 1920-21.)

History 7. Renaissance and Reformation I. (Fall) 2 Hrs.

History 8. Renaissance and Reformation II. (Winter) 2 Hrs.

History 9. Renaissance and Reformation III. (Spring) 2 Hrs.

This course deals with the development of civilization in Italy, Germany, and England in the period from Dante to Luther; the causes, nature and results of the Protestant revolt and the Catholic reformation.. The object is to see as clearly as possible the relation of these movements to the present-day civilization. Special study is made of the dominant personalities of the period and the political, economic and social, as well as the strictly religious causes of the reformation. Prerequisites: History 1, 2, and 3, or equivalent (Omitted in 1920-21.)

History 10. French Revolution. (Fall) 3 Hrs.

History 11. Europe Since 1815 I. (Winter) 3 Hrs.

History 12. Europe Since 1815 II. (Spring) 3 Hrs.

As detailed a study as time will permit of the Old Regime; the causes, progress and permanent results of the Revolution; the rise of the Napoleonic empire and institutions; the public and private career of the great conqueror and especially the growth of democratic institutions in the nineteenth century. Prerequisites: History 1, 2, 3, or equivalent. (To be given 1912-21.)

History 13. American History I. (Fall) 3 Hrs.

History 14. American History II. (Winter) [illegible] Hrs

History 15. American History III. (Spring) [illegible]

A general study of the history of the United States from the discovery of America to the present time. Political, constitutional and economic phases will receive chief attention. Part III. will also be offered in the Summer of 1921.

History 16. Recent American History I. (Fall) 3 Hrs.

History 17. Recent American History II. (Winter) 3 Hrs.

History 18. Recent American History III. (Spring) 3 Hrs.

In this course, a detailed study of the history of the United States since 1870 is made. The work is intended for those students who expect to teach history, or those majoring in the Social Sciences. Prerequisites: Course 1, 2, 3, 13, 14, 15.

History 19. The Teaching of History. **2 Hrs.**

Lectures and reading upon methods of teaching history in the secondary school, examination of text-books, followed by practice work in the preparation of lessons for teaching, and the conduct of recitation. This course should be taken by all who desire to be recommended for teaching positions in this subject. This course will be offered in the Spring and Summer quarters.

Department of Latin

PROFESSOR ______________

It is the aim of this department to utilize as fully as possible the efficiency of Latin as an instrument of education and a means of culture. The student's effort is directed toward an appreciation of Roman writings from a literary viewpoint and as exhibiting the genius of the age in which they were written.

Latin 5. Cicero-De Senectute et Amicitia. **5 Hrs.**
Fall quarter.

Latin 6. Horace—Odes and Epodes. **5 Hrs.**
Winter quarter.

Latin 7. Livy—Selections from Books XX. and XXII. **5 Hrs.**
Spring quarter.

Courses 5, 6, and 7 are open to students who have presented four units of Latin for College entrance.

Latin 8. Virgil—Eclogues and Bucolics. **3 Hrs.**
Latin 9. Tacitus—Agricola and Germania. **3 Hrs.**
Latin 10. Plautus—Captivi or Trinummus. **3 Hrs.**
Latin 11. Private Life of the Romans. **2 Hrs.**
Latin 12. Latin Literature of the Republic I. **3 Hrs.**
Latin 13. Latin Literature of the Republic II. **3 Hrs.**
Latin 14. Latin Literature of the Republic III. **3 Hrs.**

Text-books for courses 12, 13 and 14: McKail's Latin Literature and the Oxford Book of Verse.

Latin 15. Teacher's Training Course. **2 Hrs.**

Lectures and discussions on methods of teaching paradigms, translation, vocabulary and composition. Portions of the authors commonly studied in secondary schools are read, in class, to illustrate the discussions. Open only to seniors whose major work is in the Latin department. Summer quarter.

Latin 16. Advanced Composition. **2 Hrs.**

Department of Mathematics

PROFESSOR BECKWITH AND ASSISTANT

Mathematics 1. College Algebra I. **4 Hrs.**

Special stress is laid on factoring, radical quantities, fractional exponents, the solution of simple equations of one two or more unknown quantities and the quadratic of one unknown.

Mathematics 2. College Algebra II. **4 Hrs.**

The large part of this course is a study of the quadratic equation, followed by the surds, the imaginaries, the binomial theorem and arithmetical, geometrical and harmonic series.

Mathematics 3. College Algebra III. **4 Hrs.**

Theory of logarithms, permutations, combinations, choice and chance, determinants, theory of equations.

Mathematics 4. Trignometry I. (Plane) **5 Hrs.**

Theory of the trigonometric functions and their application to the solution of right and oblique triangles; the use of tables; the solution of a large number of practical problems.

Mathematics 5. Trigonometry II. **2½ Hrs.**

This course gives attention to the solution of trigometric identities, the solution of trigonometric equations, and the theory and solutions of spherical triangles.

Mathematics 6. Analytic Geometry I. **4 Hrs.**

The properties of the straight line referred to Cartesian and polar coordinates, loci, equations, and tangents to the circle, the parabola, the ellipse and the hyperbola. Prerequisite: Trigonometry I. Fall and Spring quarters.

Mathematics 7. Analytical Geometry II. **4 Hrs.**

A study of the conic sections, poles and polars, higher plane curves, solid geometry embracing the plane and quadric surfaces. Winter and Spring quarters.

Mathematics 8. Calculus I. (Differential) **4 Hrs.**

Functions: their differentation, expansion, maxima and minima, together with indeterminate forms. Prerequisite: Analytic Geometry I. Winter quarter.

Mathematics 9. Calculus II. **4 Hrs.**

A study of the points of inflexion, curvature, evolutes and involutes, change of the independent variable, functions of two or more variables, and the simpler forms of integration. Winter quarter.

Mathematics 10. Descriptive Astronomy. **4 Hrs.**

A study of the fundamental facts of astronomy and of the methods of modern astronomical research. The classes are required to spend from one to two hours a week in laboratory work, consisting of tracing on globes the path of the sun, of problems with the celestial globe, and star plotting on prepared maps. Prerequisites: Preparatory Physics and Trigonometry II. Fall quarter.

Department of Modern Languages

PROFESSOR GROTH

Preparatory Courses in German

German 1. First year German I. (Fall) 5 Hrs.

German 2. First year German II. (Winter) 5 Hrs.

German 3. First year German III. (Spring) 5 Hrs.

Pronunciation, elements of grammar, easy reading, practice in speaking and writing German. Reading: Maerchen and Erzaehlungen, Andersen's Fairy Tales, Der zerbrochene Krug, Germelshausen, Hocher als die Kirche, Traumereien, Immensee.

German 4. Second year German I. 5 Hrs.

German 5. Second year German II. 5 Hrs.

Reading, conversation and composition. Schiller's Wilhelm Tell, Marie Stuart and other masterpieces of representative German authors.

Advanced Courses in German

German 6. Advanced Course I. 3 Hrs.

German 7. Advanced Course II. 3 Hrs.

German 8. Advanced Course III. 3 Hrs.

Study of selected classics, prose composition, conversation practice, lectures on German literature, history of German literature.

Preparatory Courses in French

French 1. First year French I. 5 Hrs.

French 2. First year French II. 5 Hrs.

French 3. First year French III. 5 Hrs.

Pronunciation, grammar, writing, oral exercises, graded readings| La Mare au Diabel (Sand), L'Abbe Constantin and other similar grades of writings.

French 4. Second year French I. 5 Hrs.

French 5. Second year French II. 5 Hrs.

Reading and Translation of French masterpieces, studies in syntax and conversation.

Advanced Courses in French

French 6. Advanced Course I. 3 Hrs.

French 7. Advanced Course II. 3 Hrs.

French 8. Advanced Course III. **3 Hrs.**
Study of French classics, conversation.

Preparatory Courses in Spanish

Spanish 1. First year Spanish I. **5 Hrs.**

Spanish 2. First year Spanish II. **5 Hrs.**

Spanish 3. First year Spanish III. **5 Hrs.**
Elementary Spanish, easy reading. Cuentos Modernos, Flores de Espana.

Spanish 4. Second year Spanish I. **5 Hrs.**

Spanish 5. Second year Spanish II. **5 Hrs.**
Grammar, composition, conversation, reading of best Spanish authors.

Advanced Courses in Spanish

Spanish 6. Advanced Course I. **3 Hrs.**

Spanish 7. Advanced Course II. **3 Hrs.**

Spanish 8. Advanced Course III. **3 Hrs.**
Study of Spanish classics, conversation and writing.

Italian

Elementary Italian. For students in the College of Music. Pronunciation, translation and reading.

Department of Philosophy

PROFESSOR ____________

Philosophy 1. Logic. **5 Hrs.**
Elements from the text-book. Practical training in detecting the more common fallacies and in illustrating the condition of proof and laws of evidence.

Philosophy 2. History of Philosophy I. **3 Hrs.**
The course covers the history of European philosophy from the Ionian Greeks to the Renaissance. Prerequisites: Psychology 1 and 2.

Philosophy 3. History of Philosophy II. **3 Hrs.**
This is a continuation of Philosophy 2, with special emphasis placed on the philosophical movements of the nineteenth century, including the theory of evolution. **Prerequisite:** Philosophy 2.

Philosophy 4. Comparative Religious I. **3 Hrs.**

Philosophy 5. Comparative Religions II. **3 Hrs.**
This course is an attempt to trace out the solution or solutions of the problem regarding the origin of things as offered by religion, beginning with the most primitive form and ending with the highest form.

Text, discussions and outside readings. Prerequisite: Psychology 1 and 2. Fall and Winter quarters.

Philosophy 6. Ethics. **5 Hrs.**

The theory of morals. The course is a study (1) of the nature of goodness, duty and freedom; (2) of the ethics of the family, society, and the state. Prerequisite: Psychology I. Summer quarter.

Department of Physics

PROFESSOR BERGER AND ASSISTANT

Physics 4. Engineering Physics II. **4 Hrs.**

Physics 5 Engineering Physics II. **4 Hrs.**

Physics 6. Engineering Physics III. **4 Hrs.**

These courses constitute a year's work in Engineering Physics. Prerequisites: Preparatory Physics and Trigonometry I.; Calculus is recommened. Physics IV. is a prerequisite for Physics V. and VI. Class, three hours; laboratory, two hours.

Physics 8. Teaching of Physics. **5 Hrs.**

A course in the "Teaching of Physics." Prerequisites: Preparatory Physics.

Physics 9. Premedical Physics I. **4 Hrs.**

Physics 10. Premedical Physics II. **4 Hrs.**

Physics 11. Premedical Physics III. **4 Hrs.**

The courses are for all except Engineering students. They meet the premedical requirements. Prerequisites: Preparatory Physics; Physics IX. is prerequisite for X. and XI. Class, three hours, laboratory two hours.

Department of Political Science

PROFESSOR WEIR

Political Science|1. Comparative Government and Politics I. **3 Hrs.**

Political Science 2. Comparative Government and Politics II. **3 Hrs.**

Political Science 3. Comparative Government and Politics III. **3 Hrs.**

A study of the history of political institutions, followed by a general study of the American governmental system, national, state and local. The course is not a mere survey of the government past and present, but seeks to impress upon the student his part in the political life of the future. The course closes with a brief comparison of the English government and that of the United States. An introductory course. Fall, Winter and Spring quarters.

Political Science 4. Municipal Government I. **3 Hrs.**

Political Science 5. Municipal Government II. 3 Hrs.

Political Science 6. Municipal Government III. 3 Hrs.

A comparative and historical study of the activities, functions and problems of European and American cities. Special emphasis is placed on recent tendencies toward change in the form of city government and on meeting the new problems arising therefrom. In studying the government of European cities special consideration is given to such features as may be used to advantage in the cities of the United States. Fall Winter and Spring quarters.

Political Science 7. Comparative Government I. 2 Hrs.

Political Science 8. Comparative Government II. 2 Hrs.

Political Science 9. Comparative Government III. 2 Hrs.

A brief survey of the governments of the North American, South American, European and Asiatic countries, with a more detailed study of the past and present forms of government in Germany.

This course alternates with the course in International Law. Offered in 1920-21. Fall Winter and Spring quarters.

Political Science 10. International Law I. 2 Hrs.

Political Science 11. International Law II. 2 Hrs.

Political Science 12. International Law III. 2 Hrs.

A study of the fundamental features of the legal relations existing between States in times of peace and of war; the new problems of law and practice arising out of the recent war. A study of concrete cases illustrating the actual working out of fundamental principles.

This course alternates with the course in Comparative Government. Offered in 1921-22. Fall, Winter and Spring quarters.

Political Science 13. Current Problems I. 2 Hrs.

Political Science 14. Current Problems II. 2 Hrs.

Political Science 15. Current Problems III. 2 Hrs.

A study of the important political, social and economic problems arising from day to day. Reports on topics of current interest given, and an opportunity for free discussion offered. The purpose is not only to keep in touch with current happenings and their relation to past events, but also to aid the student to formulate and express clear, rational opinions on the questions of the day. Fall, Winter and Spring quarters.

Department of Psychology

PROFESSOR ______________

Psychology 1. General Psychology I. 3 Hrs.

Psychology 2. General Psychology II. 3 Hrs.

These courses take up the general study of mental processes. They aim to train the student to observe the processes of his own experience and those of others, and to appreciate critically whatever he may read along psychological lines. It is introductory to all work in philosophy and pedagogy and is an important part of equipment for historical and literary interpretation. Prerequisite: One year of college work. Fall and Winter quarters.

Psychology 3. Psychology of Religion. **3 Hrs.**

This is a study of a special subject based on a thorough elementary course in psychology. Three main topics will be treated: (1) The beginnings of religion in the race. Special topic, primitive customs, ritual, taboo, sacrifice, prayer, myth, magic; (2) the beginning of religion in the individual, involving a study in adolescence, the types of religious experience, such as conversion and gradual growth; revivalism in the light of the psychology of suggestion compared with the educational process; (3) analysis of mature religious consciousness with reference to the nature and place of religious emotion and the character and function of religious ideas and concepts. Prerequisite: Psychology 1 and 2. Spring, 1922.

Psychology 4. Social Psychology. **3 Hrs**

Mind is treated from the standpoint of its organizing, communicating function in social groups. The basis of the theory of social consciousness is derived from recent studies in gesture, language and instinct. Questions proper to this science are: (1) the genesis and development of consciousness in the family, gang, school, club, voluntary association and nation; (2) the social character of instinct, feeling, preception and thinking; (3) the interpretation of the crowd, fashion and custom; (4) political parties, the newspaper and the public will; (5) democracy and leadership. This course alternates with Psychology 3. Prerequisite: Psychology 1 and 2. Spring, 1921.

Psychology 5. Teacher's Psychology. **5 Hrs.**

A survey course in general psychology for beginners and a review for public school teachers. Summer quarter.

Department of Social Sciences

PROFESSOR ------------

Social Philosophy 1. Sociology I. **3 Hrs.**

Social Philosophy 2. Sociology II. **3 Hrs.**

A study of the phenomena of social life; the basis of society in nature; the social person; social institutions; social order and process. The course is designed to give an introduction to theoretical and practical sociology, and to systematize the reading, observation and thinking of the student. Courses 1-2 are prerequisite to other courses in sociology and are required for B. A. and B. S. degrees. Prerequisite: Psychology 1 and 2. Fall and Winter quarters.

Social Philosophy 3. Sociology III. (Criminology) 3 Hrs.

A study in social pathology in which the principles laid down in Sociology I. and II. are applied and an effort made to find the cause and remedy for crime. Prerequisite: Sociolgy I. and II. Spring quarter.

Social Philosophy 4. Social Message of Jesus. 5 Hrs.

This course is an effort to get a social and ethical perspective of the life and teachings of Jesus in its present day application. The work consists of free discussions in the class-room and written themes based on the four gospels and recent works on the life of Christ. Credit will be given either for English Bible or an elective in Sociology. Prerequisite: Life of Jesus. Summer, 1921.

Social Philosophy 5. Social Message of the Prophets. 5 Hrs.

The prophets will be studied as Social and Political Reformers with a strong religious background. An attempt will be made to answer the question, did they bring to the people of their times, ideals and principles to be used in the solution of their own problems, which are equally useful to us in the solution of our social and political problems. Credit will be given either for bible or advanced Sociology. Prerequisite: Old Testament History. Summer quarter 1921.

Electives from other Departments

In addition to the courses described above, candidates for degrees are allowed to present credits from the Departments of Law, Expression, or Education as follows:

Law. Elementary Law, 10 hours; Contracts and Constitutional Law, each 5 hours.

Oratory. Oratory. 10 hours.

Education. History of Education, 9 hours; Principles of Education, 9 hours.

COLLEGE OF EDUCATION

DR. JOHN DAVISON, DEAN

THE AIM

This department of the Ohio Northern University is devoted entirely to the instruction and training of teachers. The aim is to give a sound and thorough knowledge of all the branches studied; to develop correct methods of investigation and research; to aid its students in forming clear conceptions of the dignity and importance of the teacher's work; to trace in the history of education the origin and development of modern principles of teaching; to present in theory and practice approved and rational methods of instruction; to create and maintain high professional standards among present and prospective teachers; and to offer such courses for the professional training of teachers as will broaden their horizon and advance them to higher planes of usefulness, ability and service.

The work of the College has been thoroughly organized to meet the requirements of the State Department of Public Instruction. All instructors have had successful public school experience as well as special preparation for this work.

The Ohio Northern University is on the "Accredited List" of recognized schools and colleges. Those who complete the Elementary and Secondary courses described in the following pages will be granted "provisional certificates" without further examination, and, after twenty four months of successful teaching experience, the certificates may be made permanent by the State Board of Examiners.

Requirements for Admission

"Graduation from a first grade high school or its equivalent." Those not having had this opportunity may complete such work here in the preparatory department. For a full description of the preparatory courses, see "The Preparatory School" elsewhere in this catalogue. Completion of either schedule is accepted as the equivalent of a first grade high school training.

COURSES OF STUDY

"Four Year" Schedule for the Training of High School Teachers

Degree: Bachelor of Science in Education

FIRST YEAR		SECOND YEAR		THIRD YEAR	
English 1.	3	English 4.	3	General Methods	3
History of Education 1.	3	General Psychology 1.	3	Sociology 1.	3
Biology 1.	3	Principles of Secondary Education 1.	3	School Administration 1.	2
*Elective	6	*Elective	6	Teaching or Elective	3
				*Elective	4 or 5
English 2.	3	English 5.	3	Special Methods	3
History of Education 2.	3	General Psychology 2.	3	Sociology 2.	3
Biology 2.	3	Principles of Secondary Education 2.	3	School Administration 2.	2
Elective	6	Elective	6	Teaching or Elective	3
				Elective	4 or 5
English 3.	3	English 6.	3	Educational Hygiene	5
History of Education 2.	3	Educational Psychology 4.	3	Educational Sociology	3
Biology 3.	3	Principles of Secondary Education 3.	3	School Administration 3.	2
Elective	6	Elective	6	Teaching or Elective	3
				Elective	2
Drawing	3	Educational Psychology 5.	5	Educational Psychology 6.	3
Elective	9	School Law	2	Ethics	5
Bible	3	Observation	3	Elective	5
		Elective	5		

*Electives must be selected with reference to the subject or subjects which the student is preparing to teach. At least nine quarters should be devoted to the major subject, and six quarters to the minor subject.

This course may be completed in four college years of three quarters each, or in three years of four quarters each. In either case it represents one hundred and forty four weeks of college work. Graduation from a first grade high school, or equivalent, is the requirement for entrance.

Two Year Schedule for the Training of Elementary School Teachers

Diploma: Graduate in Pedagogy

FIRST YEAR		SECOND YEAR	
Educational Psychology 1	2	Principles of Teaching 1	3
Geography and Methods	5	General Methods 1	2
Public School Music	5	History of Education 1	3
Drawing	3	School Organization 1	2
		Observation or Practice Teaching	3
		Elective	2
Educational Psychology 2	2	Principles of Teaching 2	3
Arithmetic and Methods	5	General Methods 2	2
Grammar and Methods	5	History of Education 2	3
Reading and Methods	5	School Organization 2	2
		Observation or Practice Teaching	3
		Elective	2
Educational Psychology 3	2	General Methods 3	2
History and Methods	5	History of Education 3	3
Agriculture and Methods	5	School Organization 3	2
Health and Sanitation	5	Observation or Practice Teaching	3
		Elective	5

As will be noted from the above, this course may be completed in six quarters of twelve weeks each. The requirement for entrance is graduation from a first grade high school, or equivalent.

DESCRIPTION OF COURSES

Educational Psychology

DR. DAVISON, PROFESSOR WILSON

Educational Psychology 1. Human Behavior. **2 Hrs.**
T., Th. Fall quarter.

Educational Psychology 2. Psychology of Common Branches. **2 Hrs.**
T., Th. Winter quarter.

Educational Psychology 3. Paidology. **2 Hrs.**
T., Th., Spring quarter

These are elementary courses, open to all freshmen, and are designed to lay a foundation for all succeeding educational work. While the work of the three quarters is sequential and should be taken as outlined, it is offered in three units, any one of which may be taken separately if the student shall read the preceeding texts and references.

Educational Psychology 4. The Learning Process. **2 Hrs.**
T., Th. Fall quarter.

Educational Psychology 5. Psychology of H. School Subjects I. **2 Hrs.**
T., Th. Winter quarter.

Educational Psychology 6. Psychology of H. School Subjects II. **2 Hrs.**
T., Th., Spring quarter.

Courses 4, 5 and 6 are open to students who have a working knowledege of psychological principles.

School Organization

DR DAVISON

School Organization 1. Class Room Management. **2 Hrs.**
T., Th. Fall quarter.

School Organization 2. School Law and School Discipline. **2 Hrs.**
T., Th. Winter quarter.

School Organization 3. School Law and Course of Study. **2 Hrs.**
T., Th., Spring quarter.

Although the work is planned for three consecutive quarters, any one may be selected by special students prepared to take the work.

School Administration

DR. DAVISON

School Administration 1. School Systems and Agencies. **2 Hrs.**
T., Th. Fall quarter.

Study of existing school systems and the relations of the various agencies at work; comparative school legislation, with attention to Ohio; school management, financial problems, buildings and furnishings.

School Administration 2. Secondary Education. 2 Hrs.
T., Th. Winter quarter.

Special study of courses of study, selection of teachers, reports, grading and records.

School Administration 3. Vocational Education. 2 Hrs.
T., Th., Spring quarter.

History of Education

DR. DAVISON

History of Education 1. Before the Middle Ages. 3 Hrs.
M., W., F. Fall quarter.

History of Education 2. During the Middle Ages. 2 Hrs.
M., W., F. Winter quarter.

History of Education 3. Modern Times. 3 Hrs.
M., W., F. Spring quarter.

History of Education 1, 2 and 3 are required of seniors in both courses in education, but the outside readings are adjusted to the special interests of both classes of students. Open to Liberal Arts students who have had psychology.

Principles of Elementary Teaching

PROFESSOR WILSON

Principles of Teaching 1. The Educative Process. 3 Hrs.
M., W., F. Fall quarter.

Principles of Teaching 2. The Teaching Process. 3 Hrs.
M., W., F. Winter quarter.

Principles of Teaching 3. How to Teach. 3 Hrs.
Spring quarter.

Elementary. A study of the principles of teaching based on psychology. The work is centered about the recitation and school room practices.

Principles of Secondary Education

DR. DAVISON

Principles of Education 1. Principles and Problems I. 3 Hrs.
M., W., F. Fall quarter.

Principles of Education 2. Principles and Problems II. 3 Hrs.
M., W., F. Winter quarter.

Principles of Education 3. Principles and Problems III. 3 Hrs.
M., W., F. Spring quarter.

The principles of education founded upon psychology, biology and sociology are studied to final working bases. The dogmatical is not attempted, but a rational view-point towards present educational problems is emphasized. Open to Liberal Arts students who have had psychology, and who elect history of education.

Methods of Teaching

PROFESSOR WILSON AND DR. DAVISON

Methods of Teaching 1. General. (Elementary) I. **2 Hrs.**
T., Th. Fall quarter.

Methods of Teaching 2. General. (Elementary) II. **2 Hrs.**
T., Th., Winter quarter.

Methods of Teaching 3. General. (Elementary) III. **2 Hrs.**
T., Th., Spring quarter.

A careful study of the value of method in the educative process, and the methods suitable to the different grades and how they should be modified.

Method of Teaching 4. General. (High School) **3 Hrs.**
M., W., F. Fall quarter.

This course is a study of a series of phases of the scientific methods of presenting high school subjects, and checking on the results.

Methods of Teaching 5. Special. (Elementary) **5 Hrs.**

The various elementary branches listed in the "Two Year" schedule are taken up with a view to gaining advanced academic knowledge and an acquaintance with the more improved methods of teaching them. Selected texts in both subject matter and methods are made the basis in each branch.

Methods of Teaching 6. Special. (Secondary) **3 Hrs.**
M., W., F. Winter quarter.

Students taking this course will be divided into groups according to the subject they are preparing to teach. Each student must prepare a thesis on the better methods of teaching in his chosen field. The material for this study will be based upon prescribed library readings, a practical study of the methods used by the instructors in the preparatory department, and local high school, and the counsel of the professor in charge.

Public School Drawing

PROFESSOR LONG

This is an elementary course based upon well established principles of expressing thought and action by symbols. No special talent is required to take this course, as the principles may be worked out mechanically. Required of all students wishing a diploma in Education. Given in Fall and Summer quarters. Three hours credit.

Public School Music

PROFESSOR KILLEEN

No extra charge for this special training in the music department. Fall or Summer quarters. Three hours credit.

Hygiene

PROFESSOR WILSON AND DR. DAVISON

Hygiene 1. Health and Sanitation. **5 Hrs.**

Spring quarter.

This is a composite course comprising health work in the school including that of the teacher and pupils; a theoretical consideration of the intimate relation existing between mental and physical development, and plays and games which promote physical and moral growth. Prescribed readings, lectures, actual participation in games with children, and sanitary surveys. Open to all students in the School of Education who are prepared to carry the course.

Hygiene 2. Educational Hygiene. **5 Hrs.**

Winter quarter.

This course is pursued by seniors taking the training of High School teachers. It includes health sociology, rural school health administration, medical supervision, school sanitation, play and recreation, and the teaching of hygiene.

The Observation of Teaching

Through the cooperation of the Ada public schools and the preparatory department of the University this work is accessible to all. Only a limited number, however, can be accommodated at one time, and special arangement must be made as early as possible. It is advantageous to take the work daily, and attend a conference conducted by a training teacher. Credit is based upon attendance at the class, the weekly conference, and the nature of the reports. Three credit hours a quarter.

Practice Teaching

The cadet teachers train for the elementary work in the public schools. Those planning for secondary work teach in the preparatory department. As in Observation, only a limited number can be accommodated at once, and special arrangement must be made through the Dean. All work must be done by lesson plans under the immediate direction of the regular teacher in charge, and supervised by a training teacher. Credit is given to those only who show evidence of efficiency. The work is regarded as laboratory study, and only one hour a day will be recognized. Credit, three hours a quarter.

The Summer Quarter

The work of the Summer School is carefully organized and meets all the requirements of the State Department of Education.

For the summer of 1921, the work will be arranged to accommodate, first, those who wish to meet only the legal requirements; and, second, those who desire to complete a schedule leading to a diploma and state certificate. On the completion of the special schedule of ninety class hours. "Certificates of Professional Instruction" are issued. Students desiring full collegiate credit must register at the beginning of the summer quarter and continue their work during the entire quarter.

Lectures by eminent educational leaders of the country are regular features of the Summer School, and are free to the students of the University of whatever department.

Besides the regular academic and collegiate instruction, classes are formed in all the subjects prescribed by the State Department of Education for professional training and also in Home Economics and Rural Education. Arrangements have also been made for two full courses in primary methods, including plays, games, and so forth.

For further particulars send for a Summer School Bulletin.

Ohio Northern Educational Society

The Ohio Northern Educational Association holds regular weekly meetings, at which addresses and lectures are given and papers on subjects of vital importance to every teacher are read and discussed. Membership in this society is open to all students of the College of Education.

Employment Bureau

This Bureau assists Ohio Northern students in securing teaching positions. In the past year many graduates and former students were brought into direct communication with school officers in search of superior teachers. A number of superintendents and principals owe their present positions to direct calls to this bureau. The demand for teachers of science, agriculture, physical training and manual training was in excess of the properly qualified candidates.

No charge is made for the services of this bureau, but only teachers of merit will be registered.

PREPARATORY SCHOOL

RICHARD HOLMES SCHOONOVER, DIRECTOR

Purpose

The Preparatory School is organized for the purpose of (1) preparing students for college entrance, (2) affording an opportunity to any desiring to complete the work commonly required in first class high schools.

The courses of study in the preparatory school are arranged to meet the usual requirements for college entrance, the minimum of which is fifteen units. The time value of a unit is 120 clock-hours of class periods; two hours of laboratory work considered equivalent to one recitation or class period.

The subjects, distributed by years and terms as shown in the schedules following, are to be taken, as far as possible, in the order indicated.

If a student, on completing the preparatory curriculum, desires to enter college elsewhere, a certificate is issued, showing that the entrance work has been finished. This certificate is accepted in lieu of entrance examinations by the Ohio State University and other leading colleges, Ohio State Medical Board, and by the Supreme Court of Ohio in lieu of the "preliminary" to the bar examinations.

Preparatory to Collegiate Courses for A. B. Degree

FIRST YEAR	SECOND YEAR	THIRD YEAR
English Composition **Algebra 1** **Beginning Latin 1**	**Preparatory Rhetoric 1** **Plane Geometry 2** **Caesar 2**	**Physics 3** **Ancient History** **Cicero 3 and Virgil 1**
Adv. English Grammar **Algebra 2** **Beginning Latin 2** -------------------- --------------------	**Preparatory Rhetoric 2** **Plane Geometry 3** **Greek 1 or German 1 or French 1 or Spanish 1**	**English Lit. 2** **Mediaeval and Modern History 1** **Virgil 2** -------------------- --------------------
English Literature 1 **Algebra 3** **Beginning Latin 3** -------------------- --------------------	**Cicero 1** **Physics 1** **Greek 3 or German 2 or French 2 or Spanish 2**	**English Lit. 3** **Mediaeval and Modern History 2** **Anabasis 1 or German 4 or French 4 or Spanish 4**
Preparatory Botany **Plane Geometry 1** **Caesar 1** -------------------- --------------------	**Physics 2** **Cicero 2** **Greek 3 or German 3 or French 3 or Spanish 3**	**American Lit.** **Virgil 3** **Anabasis 2 or German 5 or French 5 or Spanish 5**

Preparatory to Collegiate Courses for B. S. Degree

FIRST YEAR	SECOND YEAR	THIRD YEAR
English Composition Algebra 1 Beginning Latin 1	Preparatory English History Plane Geometry 2 Caesar 2	Physics 3 Ancient History German 4 or French 4 or Spanish 4
Advanced English Grammar Algebra 2 Beginning Latin 2	Preparatory American History Plane Geometry 3 German 1 or French 1 or Spanish 1	English Lit. 2 Mediaeval and Modern History 1 German 5 or French 5 or Spanish 5
English Lit. 1 Algebra 3 Beginning Latin 3	Physics 1 Preparatory Rhetoric 1 German 2 or French 2 or Spanish 2	English Literature 3 Mediaeval and Modern History 2 Physiology 1
Preparatory Botany Plane Geometry 1 Caesar 1	Physics 2 Preparatory Rhetoric 2 German 3 or French 3 or Spanish 3	American Literature Physiology 2 Solid Geometry or Civics

DESCRIPTION OF COURSES

English

1. **English Composition.** (Sykes). This course includes a brief review of grammar, theme writing, paragraph writing, sentence structure, word study, capitalization, punctuation; the writing of letters, telegrams, business forms, et cetera. Some attention is given to versification. Stevenson's "Treasure Island" is read. Short daily themes are required.

2. **Rhetoric I.** (Brooks). Narration and description. This course is closely co-ordinated with English literature. Stevenson's "Kidnapped" is carefully studied. The theme work is largely based upon the literature the student has studied. Three short themes are required each week, and one long theme for the quarter. Prerequisite: Course I.

3. **Rhetoric II.** (Brooks). Exposition and argumentation. The aim of this course is to teach the student to write clearly. The theme work is based upon physics, physiography, civics, history and literature. There is practice in brief making and debating. Macaulay's Essays on Lord Clive and Warren Hastings are carefully studied. Prerequisite: Course 2.

4. **English Literature I.** This course is designed for those beginning the study of English Literature. The following classics are read: Shakespeare's The Merchant of Venice; Coleridge's The Rime of the Ancient Mariner; Scott's The Lady of the Lake; Goldsmith's The Deserted Village; Goldsmith's The Vicar of Wakefield; Gray's Elegy; Scott's Ivanhoe. Attention is given to the biographies of the authors and to versification. Prerequisite: Course 1.

5. **English Literature II.** (Long). This course includes (1) a study of the History of English literature to the Age of Romanticism; and (2) the study of the following classics: Elliot's Silas Marner; Browning's Shorter Poems; Thackeray's English Humorists; Palgrave's Golden Treasury; Shakespeare's Julius Caesar, and selections from Huxley. Prerequisite: Course 4.

6. **American Literature.** (Halleck). A brief survey of the history of American literature is given. The following classics are read: Selections from Lincoln; Irving's Sketch Book; selected poems of Bryant, Longfellow, Whittier, Poe, Lowell, Lanier; Hawthorne's The House of Seven Gables.

7. **English Literature III.** (Long). This Course includes (1) the history of English literature beginning with the Age of Romanticism; and (2) the study of the following classics: Carlyle's Essay on Burns; or Macaulay's Life of Samuel Johnson; Burke's Speech for Conciliation, or Washington's Farewell Address and Webster's First Bunker Hill Address; Shakespeare's Macbeth or Hamlet; Milton's Comus. L'Allegro, Il Penseroso. In each of the courses 4, 5, 6, and 7, a number of short papers are required. Prerequisite: Course 6.

Mathematics

1. **Algebra 1.** (Hawkes-Luby-Touton). Algebraic notation, simple equations, positive and negative numbers, fundamental processes as applied to algebraic numbers, special rules, factoring.

2. **Algebra II.** (Hawkes-Luby-Touton). Fractions, fractional equations, simultaneous equations, simple indeterminate equations, inequalities, square root, graphic representations, radicals.

3. **Algebra III.** (Hawkes-Luby-Touton). Imaginary expressions, quadratics, theory of exponents, ratio and proportion, progressions, variables and limits, properties of series, binominal theorem, logarithms.

4. **Geometry I.** Plane. (Wentworth and Smith). Principles, propositions and originals. Special stress is laid on original work in all courses.

5. **Geomery II.** Plane. Continuation of course 4. Circles, construction, similar polygons.

6. **Geometry III.** Plane. Continuation of course 5. Areas of polygons, regular polygons.

7. **Geometry IV.** Solid.

History

1. **Ancient History.** (Myers, Davis's Readings). An introductory study of the ancient nations, especially Greece and Rome, and the chief events of the early Middle Ages, down to the death of Charlemagne (814). Offered every Fall quarter and also in the summer of 1921.

2. **Mediaeval and Modern History I.** (Myers, Emerton). A brief review of ancient and early mediaeval history; then, as thorough a study as time will permit of the period from Charlemagne to the Reformation. Winter quarter.

3. **Mediaeval and Modern History II.** (Myers, Scherill). As thorough a study as possible of the leading events and institutions and dominant personalties of the modern period. Spring quarter.

4. **English History.** (Cheyney, text and readings). An introductory study of the growth of the English nation. Fall quarter.

5. **American History.** (Channing, Hart's Source Book). An elementary course in the history of the American nation from 1492 to the present time. Offered every winter quarter and also in the summer of 1921.

6. **Civics.** (Guitteau). An elementary course in American government. Spring quarter.

Science

1. **Physics I.** (Mann and Twiss). Class work and individual laboratory work in motion, force, energy, machine, properties of matter and dynamics of fluids. Four hours a week the first half of the quarter and six hours a week the last half are spent in individual laboratory work by each student.

2. **Physics II.** (Mann and Twiss). Lectures and recitations on sound, heat and light. Each student spends sixty hours in individual laboratory work on these subjects.

3. **Physics III.** (Mann and Twiss). Lectures, recitations and demonstrations in magnetism and electricity. Sixty hours in experimental demonstrations, measurements and testing are required of each student.

4. **Physiology I. and II.** A course in Human Physiology for teachers and for students preparing for examinations. The laboratory work covers the Harvard Entrance Requirements, and much of it can be adapted to schools where the teacher and pupils furnish all of the apparatus and materials. Many demonstrations are given by the instructor which are too difficult for the student to do alone. Students are assigned desk outfits, two at each table, for the purpose of assisting each other in manipulation and observation.

5. **Physical Geography.** A study of earth forms and processes and the geography of plants and animals. The work is based upon Salisbury's Physiography (briefer course), and due attention is given to laboratory and field work.

6. **Preparatory Botany.** (Phanerogamic). A study of the germination, growth and reproduction of flowering plants, including plant structure, physiology and classification. The subject matter of this course is similar to the work of the best high schools that are well equipped and do a large amount of laboratory work.

Latin

1. **First Lessons.** Jenner and Wilson's "Caesar's First Campaign." Five hours a week. Three quarters. Roman Pronunciation. First twenty-nine chapters of Book I., Caesar's Gallic War.

2. **Caesar's Gallic War.** Books II., III., IV., (or equivalent) and prose composition. Five hours a week. Two quarters. Emphasis is laid on prose composition as a means of acquiring a working knowledge of Latin syntax. Walker's, or any quantity-marked text, is used. Mitchell's The Art of Writing Latin.

3. **Cicero** and prose composition; six orations including the four against Cataline and the Manilian Law. Five hours a week. Two and one-half quarters. Allen and Greenough, or any quantity-marked text, is used. Mitchell's The Art of Writing Latin.

4. **Virgil's Aeneid,** six books. Prosody, especially dactylic verse. Five hours a week. Two and one-half quarters. Knapp's Virgil.

Greek

1. **First Lessons.** White's "First Greek Book." Five hours a week. First quarter, lessons 1-27; second quarter, lessons 28-54; third quarter, lessons 55-80.

2. **Xenophon's Anabasis.** Four books. Goodwin's text. Five hours a week. Two quarters.

German

1. **German I.** Pronunciation ,elements of grammar, easy reading, practice in speaking and writing German.

2. **German II.** Continuation of course 1.

3. **German III.** Drill on grammar, memorizing of colloquial sentences, readings, translations of colloquial praxis.

4. **German IV.** Reading and translation of masterpieces of representative German authors, study of syntax, prose composition, conversation.

5. **German V.** Study of German classics, prose composition.

French

1. **French I.** Pronunciation, grammar, reading, composition and oral exercises.

2. **French II.** Continuation of course I.

3. **French III.** Reading, grammar and exercises.

4. **French IV.** Reading and translation of French masterpieces, studies in syntax, conversation.

5. **French V.** Study of French classics, conversation.

COLLEGE OF ENGINEERING

Charles Addison Miller, Dean

Admission

Applicants for admission to courses in the College of Engineering, leading to a degree, must have, four years of high school preparation or an equivalent. Those not desiring to earn a degree may enter any department and pursue the studies they choose, if, on consultation, the head of the department is satisled that they have sufficient preparation to pursue the work successfully. Such applicants are classified as "Special Students." Should they later desire to graduate, they may do so, on condition of passing all the requirements including the preparatory work. Preparatory work may be taken here in the Preparatory School.

Admission to Advanced Standing

A liberal policy is pursued in giving credit for work done in other colleges. Some credit also is given for practical experience in draughting and field work acquired previous to matriculation, upon receipt of a satisfactory statement from the employer, stating the nature of the work and length of service. Statements must include postoffice address as well as signature of employer.

Time to Enter

In view of the fact that each course is offered from two to four times a year and that numbers of classes are formed each quarter, students may enter at almost any time and find the work they desire. The best time to enter, however, is at the beginning of the quarter. See calendar.

Aim in Arrangement of Courses

The courses offered, recently revised to meet the demands of the reconstruction period, aim at laying a groundwork of sound theory and, at the same time, imparting such instruction in the usual professional practice as shall equip the student for efficiency in any position to which he may be called. The technical branches are taught by scientifically trained teachers of experience in practical engineering.

By omitting subjects not directly bearing on Engineering, the time required in other technical schools for completing the work leading to a degree is shortened in Ohio Northern. An engineering degree is thus placed within the reach of thousands of young men whose circumstances will not permit them to spend the long period of four years in preparing for a vocation.

To accommodate those desiring the culture gained through the study of the "liberal arts and sciences" in addition to the thorough technical training, the College of Arts and Sciences is open to all Engineering students free of extra tuition.

Options

With the advice and consent of the professor in charge, certain subjects may be elected in the various courses to take the place of such as may not appeal to the student in his chosen vocation.

CIVIL ENGINEERING

The technical instruction includes drawing, surveying, railroad engineering, strength of materials, roofs, bridges, foundations, arches, retaining walls, dams, waterworks, river and harbor improvements, sewerage, drainage, hydraulics, water power and geodesy.

Much time is devoted to the study of steel construction, during which the student is made familiar with the computation of stresses, designing, detailing and drawing of roofs, bridges and steel structures of all kinds. Those so desiring may elect advanced work in hydraulics and sewerage, instead of a portion of the structural work of this schedule. The subject of roads and pavements, railroad construction and maintenance and masonry structures are exhaustively treated. Special attention is given to land, topographical stadia and city surveying and leveling. Besides the undergraduate work, special and more elaborate study is arranged for those wishing to prepare for particular positions.

The college is supplied with high-grade instruments and appliances necessary for first-class instruction and practice.

The laboratories are well-equipped, the draughting room large and modern, the scientific library excellent.

Instruction is given through class-room exercises, field work and practical drawing and designing. The end in view is to fit men to act as county and city engineers, surveyors, railroad engineers, bridge engineers, structural engineers, hydraulic engineers, and government geodetic engineers.

Schedule

FIRST QUARTER

	Hours
College Algebra I.	4
Trigonometry I.	5
Mechanical Drawing I.	4
Physics IV.	4
Estimates and Contracts	2½

SECOND QUARTER

College Algebra II.	4
Trigonometry II.	2½
Mechanical Drawing II.	4
Chemistry II.	5
Analytical Geometry I.	4

THIRD QUARTER

College Algebra III.	4
Calculus I.	4
Mechanical Drawing III.	4
Chemistry III.	5
Analytical Geometry II.	3

FOURTH QUARTER

Astronomy	4
Calculus II.	4
Descriptive Geometry I.	4
Physics V.	4
Plane Surveying	5

FIFTH QUARTER

Masonry	4
Calculus III.	4
Descriptive Geometry II.	4
Physics VI.	5
Field Engineering	5

SIXTH QUARTER

	Hours
Masonry Design	3
Mechanics of Materials I.	5
Analytical Mechanics	5
Field Astronomy	2½
Rail Road Survey	5

SEVENTH QUARTER

Mechanics of Materials II.	5
Stresses I.	5
Graphics I.	4
R. R. Economics and Design	5

EIGHTH QUARTER

Geology	3
Stresses II.	5
Graphics II.	4
Hydraulics I.	5
Sewerage	2½

NINTH QUARTER

Least Squares	2½
Higher Structures	5
Bridge Design I.	5
Hydraulics II.	3
Hydraulic Laboratory	2
Highway Engineering	2½
Cement Testing	1

TENTH QUARTER

Geodesy	2½
Mill Buildings	3
Bridge Design II.	5
Re-inforced Concrete	3
Electric Railways	2½
Seminar	1
THESIS	

ELECTRICAL ENGINEERING

The courses offered in this branch of Engineering require a thorough study of theoretical and applied electricity.

The first half of the prescribed study is, in the main, the same as that in the Civil and Mechanical Engineering curriculums, including the fundamental engineering sciences, mathematics, drawing and surveying. The last half consists of courses of study in stresses, graphics, strength of materials, hydraulics, steam engines, advanced study in the theory of electricity, a large amount of laboratory research and experiment, shop tests, plant testing ,meter testing, machine drafting and designing, power plant and wiring layouts, and a thorough course in electrical machine construction.

The theoretical work is supplemented with practical application in the laboratory and in the design of electrical machinery. Throughout, the student is drilled in the solution of many numerical problems with a view to a firm grasp of the theory.

In addition to an excellent Physical Laboratory, the department has a well-equipped Electrical Laboratory. An oil engine-driven electric lighting system has been installed for lighting the University buildings and grounds, and for driving the ventilating motors. The University power plant comprises one gas engine unit and semi-Diesel oil unit. To prevent interruption to the service, storage batteries have been installed. These batteries are available for test, and form an important addition to the laboratory equipment. In the laboratory, both direct and alternating currents are available for testing purposes.

The recent enlargement of the laboratory and the additional equipment have made it possible to accommodate a large number of students.

Schedule

FIRST QUARTER	Hours
Mechanical Drawing I	4
Physics IV	5
College Algebra I	4
Trigonometry I	5
Estimates and Contracts	2½

SECOND QUARTER	Hours
Mechanical Drawing II	4
Physics VI	5
College Algebra II	4
Trigonometry II	2½
Analytical Geometry I	4

THIRD QUARTER

Mechanical Drawing III.	4
Ele. Electric Machines I.	5
College Algebra III.	4
Calculus I.	4
Analytical Geometry II.	3

FOURTH QUARTER

Machine Drawing	4
Electric Machine I.	5
Physics V.	4
Calculus II.	4
Chemistry II.	5

FIFTH QUARTER

Machine Design I.	4
Electric Machine II.	4
Electric Machine IV.	4
Calculus III.	4
Chemistry III.	5

SIXTH QUARTER

Machine Design II.	4
Electric Machines III.	5
Mech. Materials I.	5
Descriptive Geometry I.	4
Analytical Mechanics	5

SEVENTH QUARTER

Thermo-dynamics I.	5
Ele. Electric Machines II.	5
Mechanics Materials II.	5
Stresses I.	5

EIGHTH QUARTER

Electric Machine V.	5
Telephone Engineering	4
Hydraulics I.	5
Plane Surveying	5
Seminar	1

NINTH QUARTER

Electric Machines VI.	5
Electric Machines VII.	5
Hydraulics II.	3
Hydraulic Laboratory	2
Steam Turbines	5

TENTH QUARTER

Electric Railways	2½
Electric Circuits	2½
Adv. Alt. Currents	5
Electric Machines IX.a	4
Electric Machines IX.b	4
THESIS	

MECHANICAL ENGINEERING

Mechanical Engineering deals with the transformation and transmission of energy, and with the theory and construction of mechanism and machinery.

This first half of the curriculum consists of the basic engineering studies. In the latter half an exhaustive study is made of all phases of heat engineering, together with the design, erection and maintenance of power plant apparatus. Thorough training is given in machine drafting, machine designs, thermodynamics, steam engines, steam boilers, gas engines, electrical machinery and steam power plants.

The University has its own oil-engine-driven lighting plant and a central steam heating plant, lighting and heating all the University buildings. This equipment is installed with special convenience for making tests on boilers, heating apparatus and power apparatus. In addition the central heating and lighting plant of the Ada Heating and Light Co., with its equipment of Corliss engines, high pressure cold and hot water pumps, boilers, et cetera, is open to the students for inspection and test.

A well equipped machine shop recently added to the laboratory outfit, gives opportunity for training in the use of tools and general machine shop practice.

The University, because of increasing power demands, contemplates building in the near future a modern power plant equipped with oil and gas engines of the latest type, with a view to making it a part of the mechanical laboratory, in which tests for efficiency and fuel consumption may be easily and quickly made. The work of installing will be done largely by student help, who thus will get practical experience in moving and erecting engines, switch-boards, storage batteries, et cetera. Since the plant will be operated by student help, additional practical experience will be gained.

Schedule

FIRST QUARTER

	Hours
Mechanical Drawing I.	4
Physics V.	4
College Algebra I.	4
Trigonometry I.	5
Estimates and Contracts	2½

SECOND QUARTER

Mechanical Drawing II.	4
Analytical Geometry I.	5
Physics VI.	5
College Algebra II.	4
Trigonometry II.	2½

THIRD QUARTER

Mechanical Drawing III.	4
Analytical Geometry II.	3
Physics IV.	5
College Algebra III.	4
Calculus I.	4

FOURTH QUARTER

Thermo-dynamics I.	5
Ele. Electric Machines I.	5
Chemistry II.	5
Calculus II.	4
Machine Drawing	4

FIFTH QUARTER

Thermo-dynamics II.	5
Metallurgy	2½
Chemistry III.	5
Calculus III.	4
Machine Design I.	4

SIXTH QUARTER

	Hours
Machine Design II.	4
Mechanics of Materials I.	4
Descriptive Geometry I.	4
Analytical Mechanics	5
Steam Power Plants	4

SEVENTH QUARTER

Ele. Electric Machines II.	5
Mechanics of Materials II.	5
Descriptive Geometry II.	4
Refrigeration	4
Machine Design III.	4

EIGHTH QUARTER

Machine Shop	4
Heating and Ventilating	4
Hydraulics I.	5
Plane Surveying I.	5
Steam Power Plants	4

NINTH QUARTER

Steam Turbines	4
Stresses I.	3
Gas Engines	4
Mechanical Laboratory I.	4

TENTH QUARTER

Valve Gears	4
Steam Engine Design	4
Seminar I.	1
Steam Boilers	4
Gas Engine Design	4
Mechanical Laboratory II.	4
THESIS	

MUNICIPAL AND SANITARY ENGINEERING

The instruction consists of the basic engineering sciences, and most of the general civil engineering subjects, special attention being paid to those branches which have to do with the public health. This calls for a better knowledge of chemistry, bacteriology and sanitation than can be obtained in the usual courses in Civil Enginnering, and additional work is given in topographical surveying, water supply, sewer design, sewage disposal, roads and pavements and precise surveying.

The increasingly great demand for improved highways requires that especial attention be given to training in the art of road building.

Schedule

FIRST QUARTER

	Hours
College Algebra I.	4
Trigonometry I.	5
Mechanical Drawing I.	4
Physics IV.	5
Estimates and Contracts	2½

SECOND QUARTER

College Algebra II.	4
Trigonometry II.	2½
Machine Drawing II.	4
Chemistry II.	5
Analytical Geometry I.	4

THIRD QUARTER

College Algebra III.	4
Calculus I.	4
Mechanical Drawing III.	4
Chemistry III.	5
Analytical Geometry II.	4

FOURTH QUARTER

Calculus II.	4
Descriptive Geometry I.	4
Physics V.	4
Chemistry VI.	5
Plane Surveying	5

FIFTH QUARTER

Masonry	4
Calculus III.	4
Descriptive Geometry II.	4
Physics VI.	5
Municipal Engineering	5

SIXTH QUARTER

	Hours
Masonry Design	3
Mechanics of Materials I.	5
Analytical Mechanics	5
Chemistry VIII.	5
Rail Road Survey	5

SEVENTH QUARTER

Mechanics of Materials II.	5
Irrigation	2½
Stresses I.	5
R. R. Economics and Design	5
Sewerage Design	2½

EIGHTH QUARTER

Geology	3
Water Supply	4
Stresses II.	5
Hydraulics I.	5
Sewerage Disposal	2½

NINTH QUARTER

Higher Structures	5
Graphics I.	4
Hydraulics II.	3
Hydraulic Laboratory	2
Highway Engineering	2½
Cement Testing	1
Seminar	1

TENTH QUARTER

Municipal Management	5
Mill Buildings	3
Electric Railways	2½
Reinforced Concrete	3
Graphics II.	4
Seminar	1
THESIS	

CHEMICAL ENGINEERING

The aim is to thoroughly acquaint the student with the fundamental principles of chemical science, and to afford him a complete drill in analysis and in the preparation of inorganic and organic products, and thus to enable him to attack and solve the many chemical and metallurgical problems evolving from the rapid development of the industries.

Schedule

FIRST QUARTER

	Hours
College Algebra I.	4
Trigonometry I.	5
Mechanical Drawing I.	4
Physics V.	4
Estimates and Contracts	2½

SECOND QUARTER

College Algebra II.	4
Trigonometry II.	2½
Mechanical Drawing II.	4
Chemistry II.	5
Analytical Geometry I.	5

THIRD QUARTER

College Algebra III.	4
Calculus I.	4
Mechanical Drawing III.	4
Chemistry III.	5
Analytical Geometry II.	3

FOURTH QUARTER

Thermo-dynamics I.	5
Calculus II.	4
Descriptive Geometry I.	4
Physics IV.	5

FIFTH QUARTER

Chemistry IV.	5
Calculus III.	4
Physics VI.	5
Metallurgy	2½
Chemistry V.	5
Thermo-dynamics II.	5

SIXTH QUARTER

	Hours
Mechanics of Materials I.	5
Ele. Electric Machines I.	5
Scientific Management	4
Chemistry VIII.	5

SEVENTH QUARTER

Mechanics of Materials II.	5
Ele. Electric Machines II.	5
Electric Machines I.	5
Chemistry IX.	5

EIGHTH QUARTER

Storage Batteries	4
Hydraulics I.	5
Electric Machines V.	5
Chemistry VI.	5

NINTH QUARTER

Machine Design I.	4
Mechanical Laboratory I.	4
Hydraulics II.	3
Hydraulic Laboratory	2
Graphics II.	4
Chemistry VII.	5

TENTH QUARTER

Economics I.	5
Steam Engines	4
Electro-Metallurgy	2½
Seminar	1
Chemistry X.	5
THESIS	

STRUCTURAL DRAFTING

Many young men for reasons, financial or otherwise, do not aspire to the longer courses leading to a degree, but would gladly avail themselves of the opportunity to prepare themselves to enter the busy "Structural Field." For such this schedule has been arranged, on completion of which a certificate will be granted, which should prove to be a valuable passport into the modern drafting room. There is no preparation other than the grades necessary to enter this course.

Schedule

FIRST QUARTER

	Hours
Algebra I.	4
English Composition	5
Mechanical Drawing I.	4
Geometry I.	1

SECOND QUARTER

Algebra II.	4
Geometry II.	5
Preparatory Rhetoric I.	5
Mechanical Drawing II.	4
Physics I.	5

THIRD QUARTER

	Hours
Algebra III.	4
Geometry III.	5
Mechanical Drawing III.	4
Descriptive Geometry I.	4
Business English	4

FOURTH QUARTER

Algebra IV.	4
Machine Drawing I.	4
Descriptive Geometry II.	4
Graphic Statics	4
Trigonometry I.	5

DEGREES

The University is empowered to grant the customary scholastic degrees.

The management accepts grades of equal value from other institutions of learning, yet the applicant for a degree is required to do a reasonable portion of his work here. No diploma is granted on grades made wholly in other institutions. No student carrying more than two subjects will be excused from the final examinations during the senior quarter.

Two hundred credit hours are required for graduation, two hours of field or laboratory work counted one credit hour.

THESIS

Every candidate for a degree must prepare a thesis upon some technical or scientific study, which lies within the field of the degree sought, and may be either designing, construction, testing or research; the study to be selected by the professor in charge and the subject to be announced not less than twenty-four weeks preceding graduation.

The form of the finished thesis must be in accordance with the requirements of the department and the libraary and be deposited with the Dean at least four weeks before the conferring of the degree.

SEMINAR

Weekly conferences are held for the purpose of discussing current engineering events and topics.

STUDENT TECHNICAL ORGANIZATIONS

The Ohio Northern Society of Engineers assembles weekly, to read papers and discuss subjects of interest to all engineering students. During the year a number of practicing engineers are invited to address the society on timely and practical topics. All engineering students are eligible to membership.

Th Ohio Northern University Branch of the American Institute of Electrical Engineers holds monthly meetings at which original papers and papers printed in the Proceedings of the American Institute of Electrical Engineers are read and discussed.

The Ohio Northern Chapter of the American Association of Engineers holds bi-monthly meetings. All Engineering students are eligible. Proceedings of the American Association of Engineers are received and discussed.

In honor of George Washington. "Surveyor, Soldier, Statesman," the societies named above devote the week of February 22, to a series of Technical Lectures, Annual Exhibit and Annual Banquet.

EXPENSES

See earlier pages of this bulletin.

DESCRIPTION OF COURSES

For description of courses and daily schedule of classes see special Engineering Bulletin.

COLLEGE OF LAW

JAMES NYE, DEAN

When Organized

The College of Law was organized as a department of the University in 1885, and numbers among its alumni and former students many of the most prominent lawyers of Ohio and other states. Its graduates have been uniformly successful as applicants for admission to the bar and as practitioners. Not one of the graduates failed to pass the June bar examinations this year.

Its Purpose

The aim of its founders was to afford an opportunity for students of limited means, to secure a collegiate training in law, and by connection with the University to offer to them the added opportunity of obtaining the general education indispensable to the successful study and practice of law. With this in mind, tuition rates are made very reasonable, and every effort is put forth to accommodate the student of limited means, but earnest puropse.

The courses are planned primarily to train students for the practice of law, but they may advantageously be pursued by anyone desiring to secure a knowledge of the principles and history of law, either as part of a liberal education, or as part of the foundation of a business career, and special attention is given to the needs of such students.

In the training of students for the practice of law, the college has four chief aims:

(a) To give a thorough, systematic grounding in the history and fundamental principles of the law.

(b) Subordinately, but as an essential feature of the work of the college, to give special instruction preparatory to examinations for admission to the bar This special instruction consists of a thorough quiz and review of the whole course, and covers a period of about three months. It is given twice each year before June and December bar examinations and is open to all students, whether they have taken the regular courses in this College of Law or some other Law School. Many students who have studied under a preceptor in an office avail themselves of this instruction.

(c) To impart a working knowledge of statute law and court practice and procedure, to the end that the young lawyer may intelligently and readily serve his clients.

(d) To inculcate the principles of legal ethics and of the lawyer's public responsibility to the end that the young lawyer may take his proper place as a leader in his community.

Equipment

The College of Law occupies commodious rooms in the new Lehr Memorial building. Its good working library is now larger and better suited to the work of the College than ever before in its history, several important and valuable sets, including the American Digest System and Lawyer's Reports Annotated, both series, and a set of the best edition of the United States Supreme Court Reports, having been added recently.

Outline of Courses

(In the following outline, the figure preceding the name of the course indicates the number of the course; that following, the number of credit hours given for the satisfactory completion of the course. A credit hour is given for the satisfactory completion of work requiring one class period a week for one quarter).

First Year

FALL QUARTER	WINTER QUARTER	SPRING QUARTER
1. Elementary Law I ---------- 5	2. Elementary Law II ---------- 5	8. Agency -------- 5
3. Personal Property, including Sales ---------- 5	6. Bailments ------ 5	9. Partnership ---- 5
4. Contracts I ------ 5	7. Torts ---------- 5	10. Domestic Relations --------- 5
	5. Contracts II ----- 5	11. Criminal Law --- 3
		12. Criminal Procedure -------- 3

Second Year

13. Suretyship ------ 5	17. Wills ---------- 5	18. Administration of Estates ------ 5
14. Insurance ------ 5	19. Damages -------- 3	21. Pleading II ------ 5
15. Private Corporations --------- 5	20. Pleading I. ------ 5	23. Real Property II. ----------- 5
16. Negotiable Instruments ------ 5	22. Real Property 1.--5	24. Municipal Corporations ------ 5

Third Year

26. Equity I. 5	27. Equity II. 5	29. Constitutional Law II. 5
30. Evidence 5	28. Constitutional Law I. 5	33. Quiz A 5
25. Brief Making and Use of Law Books 3	32. Quiz A 5	36. Quiz B 5
31. Quiz A 5	35. Quiz B 5	
34. Quiz B 5		

Lectures are given on legal ethics, legal history, international law and court practice.

Method of Instruction

Each subject scheduled in the course of study requires for its completion five recitation periods of one hour each, per week, throughout the quarter, except where otherwise indicated.

The instruction is based upon the text assigned for study, combined, in the second and third years, with a judicious use of cases, and completed, in the third year, with a thorough "quiz," under the personal instruction of the dean, preparatory to examinations for admission to the bar.

The recitation includes a thorough questioning of the student upon the text and cases studied and informal discussions by instructor and students, with constant reference to the statutes and leading cases of the jurisdiction, the whole exercise aiming to combine a knowledge of the history and fundamental principles of the law with its actual application to cases, thus giving the student a thorough grasp of the law, not only in its development, but is it now exists.

Moot Court

Moot Court, under the direct supervision of the faculty forms a regular part of the work, in which each student is expected to participate. He is required to get out all the papers necessary for the case, and to follow the customary order of procedure. Pleadings, writs, motions and journal entries, together with the principles of proceeding in appeal and error, are supervised in detail; juries are chosen, witnesses examined, motions heard, and everything in made to conform as nearly as possible to the practice of the regular courts.

Admission

Students may enter the College at any time, but, in order to receive full credit toward graduation, for work done, must enter at the beginning of a quarter.

At the beginning of the college year 1917-1918, the following rules as to the admission to the College became effective:

Candidates for degree will be required, upon their application for admission, to furnish satisfactory evidence of graduation from a first-grade high school, or from a school of equivalent standing.

Students not candidates for a degree may enter upon proving, to the satisfaction of the Dean, that they possess such general education as will enable them to pursue the study of law intelligently. Special effort will be made, as in the past, to offer such students every reasonable advantage, and special attention will continue to be given to the needs of special students who are preparing for the examinations for admission to the bar.

Preliminary to Bar Examination

The preliminary literary work required for admission to the Bar examination may be taken in the University under the regular law tuition, and a certificate showing the completion of either of the courses in the Preparatory School admits the student to the Bar examination in this state, without a preliminary examination.

Graduation

The degree of Bachelor of Laws is conferred on students who have completed the prescribed course of study.

The following conditions as to graduation will be enforced:

Credit toward graduation will be given for not more than one year's study of law under the actual tuition of a reputable practicing attorney at law. Such study must be proved by the certificate of such attorney at law, not only as to the length of time spent in study, but as to the subjects studied, the text or case books which formed the basis of the study, and the quality of the work done by the student.

Credit toward graduation will be given for not more than two year's study of law in residence in any reputable law school in the United States maintaining a three years' course of study, and proper credit will be given for study in residence in any reputable law school in the United States maintaining a course of study less than three years in length.

No credit will be given for correspondence school work.

No student will be graduated who has not studied law for a period equivalent to nine college quarters, of which time a period equivalent to at least six quarters must have been spent in residence at some reputable law school, and of which at least the last three quarters must have been spent in residence in this College of Law.

Students not candidates for a degree may select from the courses offered such work as they desire, with the approval of the dean, not to exceed a maximum of 20 credit hours per quarter.

The summer quarter is a full quarter of twelve weeks. Full courses in the College of Law are offered under the instruction of members of the regular faculty, and full credit is given for work done in this quarter. This quarter offers an excellent opportunity for teachers, and others who are unable to be in attendance during the remainder of the year, as well as for regular students who wish to complete their course in less than three calendar years, or to make special preparation for bar examinations. Quiz classes, in preparation for such examinations, are formed regularly as part of the work of this quarter, and classes are formed in such of the other regular courses as may be necessary, to meet the demands of students.

Expenses

For expenses see earlier pages of this bulletin.

SCHOOL OF COMMERCE

Emmet Elijah Long, Director

Aim

The School of Commerce aims to prepare young men and women to "do things" in the realm of commercial activity.

Location and Equipment

This School occupies the entire third floor of Lehr Memorial, equipped throughout with up-to-date fixtures and office furnishings for class use, Remington and Monarch Typewriters, Burrough's adding machine, posting machine and calculators, and all appliances needed in efficient instruction The quarters are roomy, with aboundance of light, ventilation and toilet conveniences.

The Courses of Study

The courses of study, thorough and practical, are arranged to meet the needs of young men and women planning to enter fields of business organization and administration or upon clerical, stenographic, secretarial or commercial teaching careers.

Time Required

It requires about three quarters (nine months) to complete the short course either in Bookkeeping or Stenography, the length of time depending on previous educational preparation, aptness and application; the two years course in Commerce, about six quarters; the Commercial Teachers' Normal course, six quarters. Students are promoted as rapidly as they advance, but no student is permitted to enter a higher or advanced class until all prerequisite work has been completed.

Degrees and Diplomas

Students completing the Commercial Teachers' Normal course are granted a diploma with the rank, "Graduate or Pedagogy in Commerce;" persons completing the two years course are ranked "Graduate in Commerce;" students completing the shorter courses are certified and graduated with the rank, "Graduate in Bookkeeping" and "Graduate in Stenography," respectively.

Special Students

The regular courses have been arranged for those who have completed high school or preparatory work. Students not having had such preliminary training, or those not caring to complete a prescribed course will be admitted as special students. Certificates showing amount of work completed will be issued to special students. These credits may be applied on regular courses later, should they become candidates for graduation.

When to Enter

Students are admitted at the beginning of each quarter. Many of the subjects scheduled in the two short courses, the two years course, and the Teachers' Normal course are repeated each term.

In the Summer quarter an excellent opportunity is given for teachers and those unable to attend during the other months of the year to pursue the course desired.

See calendar on the second page of the catalogue.

Situations for Students

Positions are not guaranteed, but the Employment Bureau of the University cheerfully assists graduates and students qualified for positions. There is no charge for this except the necessary postage.

The O. N. U. Commercial Club

The Commercial Club is a live organization maintained by the students and faculty of the School of Commerce. It meets regularly and discusses the many phases of business activity and commercial topics.

University Advantages

The University offers to every student of the School of Commerce additional privileges: Admission to courses in the College of Liberal Arts without extra charge when prerequisites have been met; the opportunity of obtaining military instruction, of participating in literary work in the three literary societies; and the benefits of college environment and associations.

Teachers' Normal Commercial Training

The Commercial Teacher's Normal Course, outlined hereafter, meets the present legal requirements for accrediting, and the School is authorized to announce that the State Department will recognize all graduates and will grant, without further examination, a four-year provisional certificate to teach commercial subjects in the public high schools and educational institutions.

Short Bookkeeping Course

FIRST QUARTER		SECOND QUARTER		THIRD QUARTER	
Accounting 1	5	Accounting 2	5	Accounting 3	5
Rhetoric 1	3	Commercial Arithmetic	5	Commercial Law	4
Economics 1	3	Business English	4	Typewriting 3	2
Rapid Calculation	1½	Typewriting 2	2	Salesmanship	4
Typewriting 1	2½	Penmanship	2	Spelling	2
	15		18		17

Students desiring credit for Bookkeeping done elsewhere must present the books representing the work done, including the blanks or sets, or prove the amount and nature of the work done, or pass an entrance examination at the discretion of the instructor. This applies to all the schedules of the School.

Short Course in Stenography

FIRST QUARTER		SECOND QUARTER		THIRD QUARTER	
Stenography	5	Stenography 2	5	Stenography 3 with Typewriting	5
Typewriting 1	2½	Typewriting 2	2	Office Practice	2
Rhetoric 1	3	Business English	4	Commercial Correspondence	4
Spelling	2	Commercial Law	4	Salesmanship	4
Penmanship	2½				
	15		15		15

Two Year Course in Commerce

(Rank—Graduate in Commerce. Prerequisite:
A high school education.)

First Year

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER
English ---------3	English -----------3	Accounting 3-------5
Economics 1------3	Economics 2--------3	Economics 3--------3
Accounting 1-----5	Accounting 2-------5	Salesmanship ------4
Rapid Calculation -1½	Commercial Arithmetic -----------5	Commercial Law----4
Penmanship -----2½		Typewriting 1------2
15	16	18

Second Year

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER
Accounting 4-------5	Stenography 2------5	Stenography 3 with Typewriting and direct Dictation---5
Stenography 1------5	Typewriting 3------2	Commercial Correspondence -----4
Typewriting 2------2	Business English----4	Office Practice------2
Modern Language---5	Modern Language---5	Modern Language---5
17	16	16

An elective may be substituted for Modern Language with consent of the Director.

Machine Bookkeeping and Calculator courses may be substituted for Accounting IV.

100 hours are required for graduation. Students having completed part of this work in high school must take an equivalent number of hours of college work to be selected by the Director.

Students pursuing the Two Year course are advised to arrange for remaining steadily at the work for six successive terms, if possible beginning with the Fall quarter.

Commercial Teachers' Normal Course

(Diploma—Graduate in Pedagogy in Commerce. Prerequisite: Graduation from a first grade high school or its equivalent.)

FIRST YEAR		SECOND YEAR	
Educational Psychology 1	2	Principles of Secondary Education 1	3
Accounting 1	5	General High School Methods	3
Penmanship	2½	Stenography 1	5
Rapid Calculation	1½	Typewriting 1	2
Business English	4	Accounting 4	3
		School Law	2
	15		18
Educational Psychology 2	2	Principles of Secondary Education 2	3
Accounting 2	5	Special Methods in Teaching Bookkeeping	3
Commercial Arithmetic	5	Stenography 2	5
Commercial Law	4	Typewriting 2	2
		Advanced Accounting and Auditing	3
		Professional Elective	3
	16		19
Educational Psychology 3	2	Practice Teaching	5
Accounting 3	5	Special Methods in Teaching Stenography	3
Commercial Correspondence	4	Stenography 3 with Typewriting	5
Salesmanship	4	Observation	2
		Secretarial Work	2
	15		17

One hour class-room exercise, five days the week, on work previously prepared, counts 5 credit hours.

One hour instruction on the laboratory plan, five days the week, counts 2½ credit hours.

Length of class-exercises, fifty-five minutes.

Maximum number of hours permitted a week, twenty; minimum, fifteen.

Description of Courses

Accounting I. This course, planned for beginners in accounting, gives the student the fundamental principles of bookkeeping. He becomes acquainted with a variety of books used by a single proprietor conducting a retail business. Offered each quarter.

Accounting II. This is a partnership course, introducing features used in a modern office; the budget system is presented. Open to all students having completed Accounting I., or its equivalent. Offered each quarter.

Accounting III. A theoretical and practical course, dealing with the questions of the modern corporation. Special column corporation accounting books are used in connection the Cash Journal. (Budget System). Offered each quarter.

Business English. A thorough course in practical business letter writing, including postal and general office information. Required in all schedules.

Commercial Correspondence. A continuation of work begun in Business English, with emphasis on collection, follow-up, adjustment, sales, credit and form letters.

Spelling. Regular and systematic drills are given in written and oral spelling in all courses. Students are required to take these drills and pass satisfactory examinations.

Advanced Arithmetic. Classes in advanced Arithmetic are formed in the College of Education in which students pursuing the short courses of the College of Commerce take a thorough review of that subject when beginning.

Commercial Arithmetic. Emphasis is placed on the solution of all kinds of problems met in transaction of business. Thorough from beginning to end.

Rapid Calculation. Drill in speed and accuracy in figures. The training is such that a student in carrying out extensions in invoices and statements, and computing discounts, is able to do it in large part mentally.

Commercial Law. The essentials of law from a business standpoint so presented as to enable one to know and defend his rights.

Shorthand. Thorough instruction in the principles by both individual and class methods, followed by practice in receiving dictation covering all lines of business, with speed, accuracy, phrase and word-sign drills, until the student is able to do practical office work.

The Gregg System is taught to all beginners, but the department is prepared to teach any other leading systems to commercial teachers who are required to teach any of them. Those having learned the principles of another system, if able to take dictation, are allowed to enter the dictation classes and write their own systems.

Typewriting and Multigraphing. All students pursuing regular courses in the College of Commerce are required to take training in the operation of the typewriter. The Touch system is taught, the instructor supervising the work during every period. Drills are given in every phase of the work required of typewriters.

Typewriting is required to be done in the Typewriting Department. Those taking typewriting elsewhere must present their papers for grades and take examinations, for which a fee of $3.00 is charged.

Students deformed in hands or arms are permitted to elect an equal amount of instruction in some other subject with the approval of the Dean.

Secretarial Duties. Practical training in secretarial work, including the performance of these duties, under direction of the instructor, for the Deans of the University, Executive Secretary and others requiring the service of secretaries from time to time.

Penmaship and Lettering. The best systems of writing are used, with the advantage of modern methods of instruction. The writing is easily read, rapidly written, simple in forms, natural in slant, easy of movement, and pedagogically taught.

All students in the College of Commerce are admitted to the classes in business writing without extra charge.

Lettering, including display cards, price tickets, decorative designs, etc., is taught to students desiring this kind of instruction.

Machine Bookkeeping. With a Burrough's Bookkeeping Machine students are trained in the Mechanical Bookkeeping systems, which are rapidly supplanting pen and ink methods in thousands of banks and business offices of the country.

Calculating Machine Work. The school is equipped with a battery of Burroughs Calculators. These machines are used in offices of thousands of business concerns for handling all kinds of figure work.

Without previous business experience of any kind students are able to become expert Calculator operators after a very brief course of study.

Professional Subjects in Education. For those preparing to teach commercial subjects. Principles of education, history of education, educational psychology, school management, school law, general and special methods, observation and practice teaching, and such other subjects as are required by the State Department of Public Instruction. For detailed description, see College of Education.

College of Law Subjects. Sales, contracts, partnership, agency. See College of Law.

Liberal Arts Subjects. Psychology, Sociology, Economics, Spanish, German, French. See College of Liberal Arts.

TUITION—PENMANSHIP

Ornamental penmanship, pen drawing, card writing and show card writing, one hour per day, per quarter________________________$4.50

General penmanship free to students of all departments.

All students in the College of Commerce are admitted to courses in the College of Liberal Arts without extra charge, if the prerequisites to such courses have been met.

For further information regarding tuition and fees of this department see Expenses, earlier pages of this bulletin.

COLLEGE OF PHARMACY

RUDOLPH HENRY RAABE, DEAN

Advantages Offered Here

Under the laws of Ohio, a School of Pharmacy in good standing is (1) one that demands for entrance the certificate of preliminary education issued by the entrance examiner of the State Board of Pharmacy; (2) that has a two-year course covering at least fifty weeks actual instruction occupying two school years with at least two months elapsing between the two years. Each school year must cover at least 250 hours of class room instruction and 350 hours individual laboratory work, and cover at least the work outlined in the "1913 Syllabus."

The department of Pharmacy of the Ohio Northern University, established in 1887, with constantly added facilities and enlarged plans, is endeavoring to prepare men and women to meet fully, not only the legal requirements, but also the increasing public demand for educated and trained pharmacists.

Practical and thorough courses are offered at the least expenditure of time and money; equipment, courses offered and facilities for work unsurpassed.

Excellent opportunity for registered "Assistants," if graduates of a recognized college, who wish to review for examination as "Pharmacists."

Young women admitted on an equality with young men.

The Ohio Board of Pharmacy and the Pennsylvania State Pharmaceutical Examining Board grant recognition to the graduates of the O. N. U. College of Pharmacy, who have matriculated since September 1, 1905.

Laboratories

In addition to the general biological, chemical and physical laboratories of the University the department of Pharmacy has two Pharmaceutical and Dispensing laboratories. The desk arrangement is such as to afford the student every facility for complete and thorough work, and the tables are supplied with an entire outfit of apparatus, including storing closet.

The laboratory for practical chemical work is equipped with all the accessories necessary for chemical analysis and synthesis. For advanced courses there is a complete outfit for gold and silver assaying and other metallurgical work. In this laboratory the student is required to perform a satisfactory amount of analytical and synthetical work under the personal attention of the Professor of Chemistry and an able assistant.

A Miscroscopical Laboratory has been installed and equipped with a supply of fine instruments for individual microscopic investigation.

Requirements for Admission

Applicants for admission to the regular course leading to the degree of Graduate in Pharmacy must present a certificate of preliminary education from the Entrance Examiner of the State Board of Pharmacy.

The State Board of Pharmacy announces as follows:

"The following preliminary educational credentials shall be sufficient: On and after January 1, 1920, a diploma from a legally constituted high school, normal school or academy, issued after at least four years of study."

Those wishing to pursue the three-year's course of study leading to the degree of Pharmaceutical Chemist (Ph.C) must present an entrance certificate from the State Examiner.

Persons wishing to pursue the four-year course of study leading to the degree of Bachelor of Science in Pharmacy (B.S.) must present an entrance certificate from the State Examiner.

Students from other Colleges of Pharmacy will be admitted to advanced standing upon satisfactory evidence that they have met all the requirements established by this college to attain such standing.

When to Enter

The College of Pharmacy, therefore, opens on Tuesday, September 27, 1920, and continues thirty-two weeks, with an intermission at Christmastide.

The student shall enter the College of Pharmacy on opening date and attend the introductory exercises unless excused by proper authorities. To enter the regular courses the student must present an entrance certificate from the State Examiner, matriculate, and pay tuition and fees as stated elsewhere in this bulletin.

Special students may enter at any time upon recommendation of the Dean and approval of the President.

Students who are entitled to advanced standing will enter at the time arranged by the Dean.

Schedules

Degree: Pharmaceutical Graduate

FIRST YEAR

Physiology ------------------5
General Inorganic Chem. I.------5
Pharmaceutical Arithmetic------5
Pharmaceutical Technique ------2

General Materia Medica--------1
Pharmaceutical Botany I.-------5
General Inorganic Chem. II.----5
Pharmaceutical Latin-----------3
Posology -------------------1

Pharmaceutical Botany II.------5
General Inorganic Chem. III.----5
Pharmacy I.-----------------5

SECOND YEAR

Pharmacognosy I. -------------5
General Orgaic Chem. I.---------5
Pharmacy II. ----------------5

Pharmacognosy II.-------------5
General Organic Chem. II.------5
Pharmacy III. ---------------5

Materia Medica II.------------5
Quantitative Analysis I.--------5
Pharmacy IV.----------------5

At least 1344 clock-hours are required to complete this course, 576 clock-hours in lectures and recitations, and 768 clock-hours in laboratory.

Degree: Pharmaceutical Chemist

FIRST YEAR

Physiology ------------------5
General Inorganic Chem. I.------5
Pharmaceutical Arithmetic------5
Pharmaceutical Technique ------2

General Materia Medica--------1
Posology -------------------1
Pharmaceutical Latin-----------3
General Inorganic Chem. II.----5
Pharmaceutical Botany I.-------5

Pharmaceutical Botany II.------5
General Inorganic Chem. III.----5
Pharmacy I.-----------------5

SECOND YEAR

Pharmacognosy I.	5	Pharmacognosy II.	5
General Organic Chem. I.	5	General Organic Chem. II.	5
Pharmacy II.	5	Pharmacy III.	5

Materia Medica II.	5
Quantitative Analysis I.	5
Pharmacy IV.	5

THIRD YEAR

Materia Medica I.	5	Materia Medica III.	2½
Qualitative Analysis I.	5	Toxicology	2½
Pharmacy V.	5	Qualitative Analysis II.	5
		Pharmacy VI.	5

Materia Medica Section (elective)	5
Organic Chemistry III.	5
Special Chemistry (elective)	5
Pharmacy VII. or elective	5

At least 2016 clock-hours are required to complete this course, 864 clock-hours in lectures and recitations and 1052 clock-hours in laboratory.

Degree: Bachelor of Science in Pharmacy

FIRST YEAR

Biology I.	3	Biology II.	3
Physics IX.	4	Physics X.	4
German or French	5	German or French	5
Chemistry I.	5	Chemistry II.	5

Biology III.	3
Physics XI.	4
German or French	5
Chemistry III.	5

SECOND YEAR

Physiology	5	General Materia Medica	1
General Organic Chem. I.	5	Posology	1
Pharmaceutical Arithmetic	5	Pharmaceutical Latin	3
Pharmaceutical Technique	2	General Organic Chem. II.	5
		Pharmaceutical Botany I.	5

Pharmaceutical Botany II.	5
General Organic Chem. III.	5
Pharmacy I.	5

THIRD YEAR

Pharmacognosy I.	5	Pharmacognosy II.	5
Qualitative Chem. I.	5	Qualitative Chem. II.	5
Pharmacy II.	5	Pharmacy III.	5

Materia Medica II.	5
Quantitative Chemistry I.	5
Pharmacy IV.	5

FOURTH YEAR

Materia Medica I.	5	Materia Medica III.	2½
Elective Chemistry	5	Toxicology	2½
Pharmacy V.	5	Elective Chemistry	5
		Pharmacy VI.	5

Elective in Materia Medica Section	5
Elective Chemistry	5
Pharmacy VII.	5

At least 2688 clock-hours are required to complete this course, 1152 clock-hours in lectures and recitations and 1536 clock-hours in laboratory.

DESCRIPTION OF COURSES

Materia Medica Section

Physiology. **5 Hrs.**

A brief course in human physiology preparatory to the study of the action of drugs. The digestive, circulatory, re-and nervous systems are the chief subjects considered. Lectures and recitations, 36 hours. Laboratory 48 hours.

General Materia Medica. **1 Hr.**

In this course the student becomes acquainted with the general classification of drugs and medicines. Classification is based upon dynamics. Lectures and recitations, 12 hours.

Pharmaceutical Botany I. **5 Hrs.**

The aim of this course is to acquaint the student with the main group of plants, their characteristics, and economic importance. The course is progressive, beginning with the lowest types, and ending with the highest. Lectures and recitations, 36 hours. Laboratory, 48 hours.

Pharmaceutical Botany II. **5 Hrs.**

The cell, cell contents and general anatomy of the parts of the plant, such as root, stem, leaf, flower, fruit, and seed, are the subjects of this course. A few drugs from each classification will be considered. Lectures and recitation, 36 hours. Laboratory, 48 hours.

Posology. 1 Hr.

This is a brief course intended to familiarize the first year student with the science of dosage. Lectures and recitations, 12 hours.

Pharmacognosy I. 5 Hrs.

In this course the student is taught how to identify, select, and value drugs miscroscopically. He will learn the official names, definition, habitat, and constituents of each drug studied. Lectures and recitation, 36 hours. Laboratory, 48 hours.

Pharmacognosy II. 5 Hrs.

This is a continuation of Pharmacognosy I. Attention will be given to preservation, adulteration, and identification of powdered drugs. A liberal use of the compound miscroscope is required in this course. Lectures and recitations, 36 hours. Laboratory 48 hours.

Materia Medica I. 5 Hrs.

A course in inorganic Materia Medica. Special attention will be given to official names, physiological action and doses. The physical and chemical properties of these drugs will receive attention in so far as they influence their action. Lectures, recitations, 36 hours. Laboratory, 48 hours.

Materia Medica II. 5 Hrs.

This is a course in inorganic Materia Medica (vegetable). The organic drugs will be classified according to their action upon the human body. Attention will be given to official names, constituents, action and dosage. Lectures and recitations, 60 hours.

Materia Medica III. 2½ Hrs.

A course in inorganic Materia Medica (animal). These drugs will be classified zoologically. Attention will be given to official names, definitions, sources, action and dosage. Lectures and recitations, 18 hours. Laboratory, 24 hours.

Toxicology. 2½ Hrs.

A study in the principles of poisoning, classification of poisons, and effects of each class. Lectures and recitations, 30 hours.

Biological Assaying. 5 Hrs.

Attention will be given to biological assaying methods and standardization of the U. S. P. drugs that are most satisfactory valued by this method. Lectures, recitations, 12 hours. Laboratory, 96 hours.

Bacteriology.

A course in pharmaceutical bacteriology will be offered in connection with the department of biology upon demand by a sufficient number of students.

Chemistry Section

Physics. **5 Hrs.**

A course in elementary physics with a direct bearing upon pharmaceutical and chemical processes. Lectures, recitations and laboratory.

General Inorganic Chemistry I. **5 Hrs.**

This is an introductory course in General Inorganic Chemistry. Chemical theory, atoms, molecules, valence, writing and naming chemical formulas, are the chief topics. Lectures and recitations, 36 hours. Laboratory, 48 hours.

General Inorganic Chemistry II. **5 Hrs.**

A brief course in general Inorganic Chemistry based upon the non-metals. Occurrence, preparation, physical and chemical properties and their combinations will be carefully studied. Lectures and recitations, 36 hours. Laboratory, 48 hours.

General Inorganic Chemistry III. **5 Hrs.**

A course in General Inorganic Chemistry based upon the metals. Their occurrence, preparation, physical and chemical properties and combinations will be carefully studied. Lectures and recitations, 36 hours. Laboratory, 48 hours.

Qualitative Analysis I. **5 Hrs.**

A course in inorganic Qualitative Analysis. Prerequisites: General Inorganic Chemistry I., II. and III. The greater portion of this course is devoted to laboratory practice.

Qualitative Analysis II. **5 Hrs.**

This is a continuation of Qualitative Analysis I.

General Organic Chemistry I. **5 Hrs.**

A study of the structure and constituents of the carbon compounds; the hydro carbons and carbohydrates with many of the addition and substitution products. Lectures and recitations, 60 hours.

General Organic Chemistry II. **5 Hrs.**

This is a continuation of General Organic Chemistry I. Lectures and recitations, 24 hours. Laboratory, 80 hours.

General Organic Chemistry III. **5 Hrs.**

A continuation of General Organic Chemistry II.

Quantitative Analysis I. **5 Hrs.**

This work consists of Volumetric and gravimetric analysis; the determination of acidity and alkalinity; the analysis or organic and inorganic salts. Lectures, 12 hours. Laboratory, 96 hours.

Quantitative Analysis II. **5 Hrs.**

This is a continuation of Quantitative Analysis I.

Physical Chemistry. **5 Hrs.**

Industrial Chemistry. **5 Hrs.**

Special Chemistry. **5 Hrs.**

Under this head are grouped several electives, viz., analysis or drugs and chemicals, coal and coke, iron and steel, cement, ores, and others.

Pharmacy Section

Pharmaceutical Arithmetic. **5 Hrs.**

A course in calculation pertaining to Pharmacy. The student is taught current weights and measures. Metric system, English system, proportion, alligation, specific gravity and specific volume, comparison of thermometer scales, are the chief topics. Special attention is given to the metric system of weights and measures and their relationship with the English system of weights and measures. Lectures and recitations, 48 hours. Laboratory, 24 hours.

Pharmaceutical Latin. **3 Hrs.**

A course covering such essentials of inflection and syntax as to familiarize the student with the etymology and construction of the nomenclature used in the United States Pharmacopoeia and National Formulary and to enable him to read prescriptions. Lectures and recitations, 36 hours.

Pharmaceutical Technique. **2 Hrs.**

An introductory course in the principles upon which pharmaceutical operations are based. Lectures, demonstrated lectures and recitations, 36 hours.

Pharmacy I. Galenical. **5 Hrs.**

The chief topics of this course are waters, infusions, decoctions, syrups, mucilages, spirits, tinctures, fluid extracts, and other classes of preparations of quite similar nature. Lectures and recitations, 36 hours. Laboratory, 48 hours.

Pharmacy II. Galenical. **5 Hrs.**

This course is a continuation of Pharmacy I. Attention is given to those official preparations which require skill and careful manipulation. Mixtures, emulsions, liquors and certain acids, are the chief topics. Lectures and recitations, 36 hours. Laboratory, 48 hours.

Pharmacy III. Dispensing. **5 Hrs.**

This is a course in extemporaneous pharmacy. Prescriptions, compounding and dispensing prescriptions, and incompatibilities are the chief subjects of this course. The student will be given a liberal opportunity to compound actual prescriptions. Lectures, 12 hours. Recitations 12 hours. Laboratory, 72 hours.

Pharmacy IV. Commercial. **5 Hrs.**

Bookkeeping, Business Correspondence, Commercial Law, Salesmanship, Pharmaceutical Laws and business practice, are some of the subjects offered under this heading. See schedule for electives.

Pharmacy V. **5 Hrs.**

Manufacture and standardization of inorganic pharmaceuticals. Lectures 12 hours, laboratory 96 hours.

Pharmacy VI. **5 Hrs.**

Manufacture and standardization of tinctures, fluid extracts and exrtacts. Lectures 12 hours, Laboratory 96 hours.

Pharmacy VII. **5 Hrs.**

Manufacture of pharmaceuticals on the commercial basis. Lectures and recitations. Inspection of certain manufacturing plants will be required.

For courses in English, language, mathematics, biology and physics, see description of courses under College of Liberal Arts.

Requirements for Graduation

Each applicant for the degree Pharmaceutical Graduate (Ph.G.) must be of good moral character, must have satisfactorily completed the two-year's course of study, the last year of which being spent in resident study in this school.

Each applicant for the degree of Pharmaceutical Chemist (Ph.C.) must be of good moral character, must have satisfactorily completed the three-year's course of study, the last year of which being spent in resident study in this school.

Each applicant for the degree of Bachelor of Science in Pharmacy (B.S.) must be of good moral character, must have satisfactorily completed the four-year's course of study, the last year of which being spent in resident study in this school.

A. D. JUILLIARD SCHOOL OF MUSIC

FREDERIC THOMAS KILLEEN, DIRECTOR

Aim

The music department of the Ohio Northern University stands ready to give solid, fundamental training in the various branches and to advance its students to a graduation creditable to them and to the University. The school is equally suited to those specializing in music and to those desiring to avail themselves of certain of its advantages, while following some other line of university work.

Equipment

The lower floor is used for teachers' studios, a reception room and a small recital hall. The upper floor is given over entirely to pupils' practice rooms, well lighted, heated and ventilated and equipped with pianos of good make.

Lehr Auditorium, equipped with a grand piano and a new pipe organ, furnishes an excellent place for public recitals and concerts.

DEPARTMENTS AND COURSES

Voice

First Year. A thorough knowledge of breathing and breath control; exercises in breathing and tone placing; in agility and relaxation of muscles; Ferdinand Sieber's eight measure studies and the ten studies, Op. 44-49; simple songs, carefully selected to assist the pupil in conquering his difficulties.

Junior. Exercises in agility, uniting of the tones; the swell, mezzo voice, embellishments; studies in the Masterpieces of Vocalization, which is a graded series of vocal studies selected from the works of all the great masters of singing; songs of suitable grade.

Senior. Advanced exercises in agility covering all kinds of scales and chords in both major and minor; mezzo voce, trill; exercises for strengthening the voice. Advanced work in the Masterpieces of Vovalization.

Throughout the course carefully selected songs and arias from the best American, English, French and Italian writers are used. While songs in foreign tongues are often taught in the language in which composed, special care is taken to give the pupil a clear and intelligible enunciation of the English language.

It is advised that voice pupils study French and Italian.

Pianoforte

Instruction in piano playing involves a special adaptation to the needs of the individual pupil. A minute study of each student's deficiencies and previous habits of work os made and technical studies and pieces best adapted to his needs are given him. Music is a means of intellectual culture and artistic enjoyment; the works of the best masters are therefore employed through all grades.

First Year. Bach, Little Preludes. Two-part Inventions. Kuhlau Clementi Sonatinas. Schools of Velocity by Berens, Czerny, etc. Jensen and Cramer Etudes. Doring Octave Studies. Sonates by Hayden, Clementi, Mozart, Beethoven, etc. Selected Pieces.

Junior. Bach, Three-part Inventions. Preludes and Fugues, Well-tempered Clavichord. Clementi's Gradus ad Parnassum, Czerny, Op. 740. Sonates by Mozart and Beethoven. Compositions by Mendelssohn, Schubert, Grieg, MacDowell, etc.

Senior. Daily Studies, Czerny. Octave Studies, Kullak. Solo works of greater difficulty by Schuman, Chopin, Liszt, Henselt, Moszkowski. Concertos by Mozart, Hummel, Mendelssohn, St. Saens, Grieg, etc.

Courses for Children. The object of these courses is to induce parents to send their children to school at an early age, where they can be under competent instruction from the start, and where they may be assured that no time will be lost in entering upon their advanced work.

The policy of the school throughout is not to adhere strictly to any one so-called "method"; the instructors, after careful study, have selected the best features in various methods, and offer to the students a course of training unexcelled in any conservatory.

It is the endeavor to make the study of piano interesting to the child and to keep practice from becoming mere drudgery. High ideals are set before him and the foundation is laid for a broad musical knowledge.

Organ

The course of study provides for thorough training in preparation for church and concert work. The course has been arranged to give a knowledge of the French schools of organ music through the study of the works of the best composers in this school.

First Year. Stainer's Organ Primer. Bach Chorales. Studies by Merkel and Whiting. Easy Hymns.

Second Year. Rheinberger Trios. Eight Short Preludes and Fugues by Bach. Nilsson Pedal Studies. The easier pieces my Guilmant, Dubois, Batiste, Faulkes, Lemare, and others. Hymns of any difficulty.

Junior. Trios by Bach. Preludes and Fugues by Bach. Chorale Preludes. Sonates by Mendelssohn. Pieces of medium difficulty by Guilmant, Dubois, Gigout, Widor, Lemare, Hollins, etc.

Senior. Preludes and Fugues, Books III. and IV., Bach. Sonates by Guilmant, Gigout, Thiele, Lemmens.

Violin

First Year. Violin methods of Polanaski, Schraedick and DeBeriot; Etudes of Alard and Kayser; O'Senick, School of Bowing Technique; Solos by Dancla, Sitt, Bohn, Seity, et cetera.

Junior. Etudes of Blumenstengel, Mazas, Dont; Technique Prepartoire of Sevcik; Concertos of DeBeriot, Viotti, Krentzer; Solos, Obertass of Wienianiski, Andante and Scherzo of David, Ballade et Polonaise of Vieuxtemps, Russian Airs of David.

Senior. Etudes of Krentzer, Fiorillo and Rode; Techniqual Studies of Sevcik and Schraedick; Concertos of Bruch, Spohr, Mendelssohn and Mozart; Sonatas of Handel and Beethoven; Solos, Zigennerfeisen of Sarasate; Marzurka of Musin; Romances of Beethoven; Suite of Sinding.

Theory, History and Ear Training

The Course in Theory is twelve weeks long, classes reciting twice a week. It includes the elements of Acoustics and Tone Quality; a description of the Orchestra and its Instruments; Accent, Rhythm and Tempo; Outlines of Motive Transformation and Thematic Treatment; Explanation and Analysis of Musical Form; Textbook, "Theory of Music" by Louis C. Elson; the text is supplemented by work in other texts and additional analysis of form.

The Course in Ear Training is twenty-four weeks long and is a requirement of all first year harmony students. In this class the pupil is taught to recognize by ear and express in writing, rhythms, intervals, melodies, chords, chord progressions and modulations.

The work is carefully graded from the simplest studies in the major scale to those involving difficult problems in both rythm and intervals. In general, the course follows the textbook, "Ear Training" by A. E. Heacox.

The Course in Musical History is thirty-six weeks long, beginning with the fall quarter or at other times if a sufficient number desire it. Classes meet twice a week.

The aim of the course is to trace the art of music from its beginnings to its present date. Much time is devoted to the lives of the greatest composers and to a careful study of representative works of each. Due consideration is also given to the development of the larger forms. The text used is "History of Music" by W. S. Pratt and this is supplemented by lectures and collateral reading.

Harmony

The text used in this course is "Lessons in Harmony" by Heacox and Lehmann. supplemented with collateral texts and reference books. The four quarters of work in this subject required for graduation are as follows:

First Quarter. A thorough knowledge of keys, scales, signatures, intervals, and triads gained by frequent oral and written drill. Simple part writing from given bases and sopranos. Playing of cadences at the piano.

Second Quarter. Dominant and supertonic seventh chords. Modulation begun. Dominant ninth. Other chords of the seventh. Writing of original hymn tunes.

Third Quarter. Modulation to nearly related keys. Advanced studies in secondary seventh chords. Chromatically altered chords.

Fourth Quarter. Modulation to remote keys. Enharmonic changes. Suspensions, retardations, appogiaturas, anticipation, passing tone, embellishment, pedal point.

Counterpoint

Simple Counterpoint in two parts, in all species and combinations. Three part counterpoint in first, second and third species. Completion of three part Counterpoint; four part Counterpoint; Imitation. The textbook used in Counterpoint is "Simple Counterpoint" by F. J. Lehmann. Prerequisite: Harmony I., II., III., IV.

Harmonic Analysis

The one quarter of work in this subject required for graduation is devoted to a study of the text "Harmonic Analysis" by F. J. Lehmann.

GRADUATION

To finish any of the courses (Voice, Piano or Organ) with credit usually requires four years of work, the exact time depending upon the talent and industry of the pupil. No pupil is allowed to finish with fewer than two lessons a week during the senior year. A diploma is awarded upon the satisfactory performance of a public recital and the completion of work indicated in the following outline:

Voice. Harmony, 3 quarters; Musical History, 3 quarters; Theory, 1 quarter; Ear-Training, 2 quarters; enough Piano to play accomplishments.

Piano. Harmony, 4 quarters; Harmonic Analysis, 1 quarter; Counterpoint, 1 quarter; Musical History, 3 quarters; Theory, 1 quarter; Ear-Training, 2 quarters; Voice or Violin, 3 quarters.

Organ. Harmony, 4 quarters; Harmonic Analysis, 1 quarter; Counterpoint, 1 quarter; History of Music, 3 quarters; Theory, 1 quarter; Ear-Training, 2 quarters; 3 quarters Voice or Violin; creditable knowledge of Piano.

Violin. Harmony, 4 quarters; Harmonic Analysis, 1 quarter; Counterpoint, 1 quarter; History of Music, 3 quarters; Theory, 1 quarter; Ear Training, 2 quarters; Piano, 3 quarters.

Post Graduate Work is in all departments.

TEACHERS' COURSE

This course is especially for those pupils who are not gifted as performers but are qualified to teach. Those completing the Teachers' Course are not required to give a public graduating recital, but will render a suitable program at one of the Tuesday evening recitals.

The theoretical subjects for this course are the same as for the diploma course, and in addition the student will be required to take nine hours pedagogical work.

PUBLIC SCHOOL MUSIC

The courses in Public School Methods and Supervision are offered in the Summer Quarter only. Classes recite daily.

Public School Music I. (First half of term.) A thorough knowledge of music fundamentals and sight singing. Outlines for work in the first four grades and in the ungraded school.

Public School Music II. (Second half of term.) Prerequisite: Public School Music I., or its equivalent. Review of musical essentials and further drill in scales, keys, and sight-singing. Ear training. Outlines for advanced grades. High School Music. Special attention is given to the treatment ofthe child voice at all ages and to drilling and conducting choruses.

Graduation Requirements. No pupil will be graduated from this department unless he has a high school education or its equivalent, can sing in tune, can read ordinary music at sight and has a fair knowledge of Piano.

In addition to the above essentials the following studies are required:

Voice, 2 quarters; Harmony, 2 quarters; History of Education. I. and II.; Paidology, 1 quarter; Observation I.; Methods I., or Classroom Management; History of Music I. and II.; Grade outline work, Organization and Supervision, 2 summer terms. (6 weeks each.)

The course may be completed during summer quarters only. For such studies in the College of Education as are not offered in summer work, suitable substitutions will be made.

RECITALS

Pupils' Recitals. Pupils' recitals are held at seven o'clock every Tuesday evening to enable the student to gain confidence and exhibit the progress he has made.

Faculty Recitals. At intervals the faculty of the College of Music presents a program of such nature as to further the education and standards of the students.

Artists' Recitals. By means of these recitals the pupils come in contact with the great musical personalities and hear the best music well performed.

MUSICAL ORGANIZATIONS

Choral Society. The Choral Society is made up of both university students and townspeople and is open to all who love good music. The society meets every Monday evening that school is in session during the first three quarters. The fees charged are nominal. The society aims to give two public performances each year.

Men's Glee Club A glee club of twenty voices has been organized, for the purpose of giving home concerts and touring the state each year.

Girls' Glee Club. This club is organized to learn the best in choral works written for female voices, and to give a concert each year.

Orchestra. A large orchestra is being organized to take up standard works of the great composers, and to play at the concerts of the Choral Society.

Band. A splendid military band is maintained, affording an opportunity for practice to students playing a brass or reed instrument.

Choirs. Choir work is of marked value in a musical education. All advanced voice students should take advantage of its benefits.

The churches of the town welcome students to their choirs.

RUDIMENTS AND SIGHT SINGING

A course in Rudiments and Sight Singing is given twice a year,—in the winter quarter and in the summer quarter. The class meets twice a week and is free to all university students.

TUITION

Voice, Piano, Organ or Violin, quarter of twelve weeks, two lessons a week	$22.00
One lesson a week	14.00
For either of the six-weeks summer terms, Voice, Piano, etc., two lessons lessons a week	14.00
One lesson a week	8.00

Children's Department

Piano, quarter of twelve weeks, two lessons a week	$10.00
One lesson a week	6.00

Class Lessons

Harmony, per quarter	$ 7.50
Counterpoint, per quarter	7.50
History of Music, per quarter	5.00
Theory of Music, per quarter	5.00
Ear Training, per quarter	5.00
Public School Music, per quarter	14.00
Public School Music, per six weeks term	8.00

EXPENSES

Piano rent, one hour a day, per quarter	$ 2.50
Rent of Pipe Organ for practice, one hour a day per quarter	12.00

These rates are for lessons by the quarter only. Single lessons are more.

Pupils registering within the quarter are charged for one lesson more than is given them.

SCHOLARSHIP

The university is in possession of two scholarships amounting to $150 a year each. These scholarships are the gifts of a man anxious to help poor, yet worthy students, in attaining to well trained lives. The terms of the scholarships require that the student take from one-third to one-half literary work, the rest music; that the award be made by the President of the University and the Dean of the College of Music. The student may be either a young man or a young woman and the fund will be found sufficient to pay the tuition and a little more. The preference of the donor is for students who expect to become teachers of music.

GRADUATION FEES

Diplomas are awarded to students completing recital courses in Voice, Piano, Organ or Violin. The graduation fee is $5.00.

Certificates are awarded to students completing the Teachers' Course in any of the above subjects, and to those completing the course in Public School Music. The graduation fee in these courses is $2.00.

REGULATIONS

1. All tuition payable in advance.
2. Lessons lost with reasonable excuse will be made up where pupil has given teacher twenty-four hours notice of intended absence.
3. Credit will be given for work done elsewhere, and the pupil will be permitted to enter the grade for which he is prepared.
4. Practice rooms in the Music Building are provided for non-resident pupils.

REFUNDING

See earlier page of this catalogue.

SCHOOL OF AGRICULTURE

-----------------------------------, DIRECTOR

Equipment

The Department of Agriculture, established in 1909, after having been closed for "the period of war," was reopened in September 1919, on an enlarged scale.

The University possesses a farm of ninety acres, conducted under modern principles of management, and is stocked with the best breeds of animals—Percheron horses; Holstein-Fresian, Guernsey, Jersey and Red Polled cattle; Shropshire and Delain sheep; Duroc Jersey, Poland China, Chester White and English Berkshire hogs. Within convenient reach of the University are breeding stable of imported Percheron, Belgian and German coach horses. Studs of Morgan and Standard bred blood are maintained in Ada.

In view of the many soil formations of the region and the crops to which the University farm and the locality in general is devoted, soil and crop production can be very advantageously studied.

The farm has an equipment of modern agricultural machinery, including a Fordson tractor. The horticultural department has a commodious experimental greenhouse just completed which will be stocked with the varied and rare plants for horticultural and biological instruction. Within a few blocks of the University are some of the largest greenhouses in the county, covered by 50 to 75 thousand square feet of glass. They are devoted to the raising of flowers, vegetables, the cultural operation of which the classes systematically observe and study.

The University library has upon its table the important current live stock literature, while the traveling library of the state supplies the institution with numerous volumes upon animal husbandry. Bulletins of experiment stations and of the United States department of Agriculture, including the year book of that department and the works of the Bureau of Animal Industry, may be found on the library shelves.

Courses Offered

The University offers only those courses in which it has ample laboratory facilities for thorough teaching. For this reason the school of Agriculture offers accredited instruction only for the first two years of a four year course, paralleling in these two years the curriculum of leading state agricultural colleges. Students are advised to complete their last two years in a State University, which, by reason of superior technical facilities for specialized courses, is enabled to serve the student more advantageously.

Schedule

FIRST YEAR

Fall Quarter	Winter Quarter	Spring Quarter
Horticulture I.	Horticulture II.	Horticulture II.
Mech. Drawing I.	Chemistry II.	Chemistry III.
Chemistry I.	Coll. Rhetoric II.	Zoology III.
Coll. Rhetoric I.	Zoology II.	Geology I.
Zoology I.	Trigonometry I.	Military Drill
Military Drill	Military Drill	

SECOND YEAR

Fall Quarter	Winter Quarter	Spring Quarter
Bacteriology I.	Bacteriology II.	Bacteriology III.
Botany I.	Botany II.	Horticulture IV.
Physics I.	Physics II.	Botany III.
Economics I.	Economics II.	French, German or Spanish III.
French German or Spanish I.	French, German or Spanish II.	Physics III.
Military Drill	Military Drill	Military Drill

Description of Courses

Agriculture 1. Soil Technology. **3 Hrs.**

This course is designed to give the student and understanding of the fundamentals of soil management for maximum crop production. The process of soil formation, classification and physical properties are considered, as well as fertilizers and manures. Two lecture hours and two laboratory hours each week.

Agriculture 2. Crop production. **3 Hrs.**

A study of cultural methods, harvesting and marketing; adaptation, uses, distribution and history of forage; cereal and miscellaneous crops. Laboratory work includes a study of the principal types and varieties. Insects and vegetable pests and methods of control are studied. Two lecture hours and two laboratory hours each week.

Agriculture 3. Animal Husbandry. **3 Hrs.**

A general discussion of the various types of farm animals particularly with reference to farm function. Brief attention also is given to the history of breeds and market classes. Two lectures hours and two laboratory hours a week.

Agriculture 4. Agriculture and Methods. **5 Hrs.**

A general course for elementary and secondary teachers. Summer Quarter.

Agriculture 5. School Gardening. **3 Hrs.**

A course designed for teachers who desire to train students in practical horticulture. The work is carried on in connection with greenhouse and involves study of plans, materials, and culture of vegetables and flowers suitable for school and vacant lot garden work. One lecture hour and two laboratory periods each week.

Expenses

For expenses see earlier pages of this bulletin.

SCHOOL OF EXPRESSION

MAE DEMING McCOPPIN, DIRECTOR

Aim

The aim of this school is to prepare men and women for fuller service in public speaking, whether as teachers, readers, lecturers, preachers or lawyers, and also to meet the need of those who realize the general cultural value of the study of Expression. For this reason, expression is taught, not by imitation, but by the mastery of definite laws in such a way as to bring out the individuality of the student

Courses

The courses may be grouped under two general classes.

I. **General Culture**—for those desiring to meet the demands of today's social intercourse. Sight Reading, Mythology, Voice Training, Breathing, Physical Culture, Literary Interpretation of Prose and Poetry, Extempore Speaking, Dramatic Training, Pantomine, Gesture and 55 Private Lessons.

II. **Professional Culture**—for Teachers, Platform Readers, Public Speakers, Clergymen, Lawyers, in fact all who aim to profit by any form of Speech Arts. This course includes all subjects under the first course and Theory in Preaching and Teaching, School Management, Composition and Delivery of Orations, Forsenic Oratory, Argumentation, Debate, Vocal Physiology, Correction of the Faults of Speech, Plot, Character Study and interpretation of Merchant of Venice, As You Like It and Hamlet, with preparation and presentation of scenes for criticisms, Platform Programs, Normal Work, in all departments and 90 Private Lessons.

Children's Classes

On Saturday afternoon and at other times, in vocal training, reading and recitation.

Public Speaking

Practical courses are given to speakers to develop the power to think when on their feet, and secure not only a vocabulary, but control of voice modulations and pantomine actions. The student is assigned studies to awaken a true ideal of oratory. These develop mental power and grasp, logical method, and control of feeling as well as of voice and body.

Problems in Expression

Short passages, sentences, or phrases, original and selected, are rendered by students to stimulate the creative actions of mind, body and voice in natural unity.

Courses: 1. Problems in Reading. 2. Voice Problems. 3. Harmonic Problems. 4. Pantomimic Problems. 5. Dramatic Problems. 6. Problems in Speaking.

Recitals and Contests

The school offers the students many opportunities of appearing before public audiences as readers, orators, debaters and public speakers in general. A goodly number of programs are arranged every year in the University and town, to all of which students are eligible. In addition, the students are expected to appear in frequent recitals given by the School of Expression.

Certificates and Diplomas

Those satisfactorily completing the One Year General Culture Course will be granted a certificate to that effect. Those satisfactorily completing the Two Year Professional Course will be granted a Diploma of Graduation by the University. The degree of Bachelor of Oratory is granted to those completing a three-year course, provided they hold a high school diploma or its equivalent.

EXPENSES

Tuition

Class Lessons, per quarter	$15.00
Private Lessons, per quarter (15 lessons)	15.00
Class and Private Lessons and Physical Culture	30.00
Private lesson, single lesson	1.25
Textbooks, stationary, et cetera, per year, about	5.00
Physical Culture, per quarter	7.00

Refunding

See earlier pages of this catalogue.

MILITARY SCIENCE AND TACTICS

....COMMANDANT

OFFICERS TRAINING CORPS

Under General Orders No. 49, War Department, September 20th, 1916, a Senior Reserve Officers Training Corps is established at the Ohio Northern University.

The arms and equipment are the same as those issued to the regular army. The rifles used will be the U. S. Magazine Rifle, model of 1917, caliber 30. Target practice will be held first with the sub-caliber rifle 22. Target practice will also be had with the Colt Automatic Pistol.

Organization

The Cadet Battalion consists of the following: One Cadet Major, one First Lieutenant Cadet Adjutant, one Captain Cadet Band Leader, and one Cadet Sergeant Major. Each Company consists of:

1 Captain, 1 First Lieutenant, 1 Second Lieutenant, 1 First Sergeant, 1 Supply Sergeant, 4 Sergeants, 6 Corporals, 1 Company Clerk and 42 Privates.

Appointments

The cadet offiicers are appointed by the Professor of Military Science and Tactics after his recommendations have been approved by the President and the Faculty Military Committee. The non-commissioned officers are recommended by their various company commanders and appointed by the Professor of Military Science and Tactics.

Officers who fail to maintain their companies in satisfactory condition will be promptly reduced.

Advantages

The advantages of the course in Military Training are numerous; physical benefits; training as a leader; training in team play and organization; preparation for national service thereby fulfilling a patriotic duty; special training of technical character of value in a professional career; opportunity to qualify for Lieutenant's Commission in the Officers Reserve Corps without interfering with training for civilian life; opportunity to attend without expense summer Camps, both benefcial and helpful in character; scholarship of about $125.00 a year during the last two years of the course; training which develops leadership, self reliance, confidence, courtesy, initiative and a keen sense of duty.

Text Books

The following text-books furnished by the War Department are designed for the course: Infantry Drill Regulations, Manual of Interior Guard Duty, Small Arms Firing Regulations, Manual of Physical Training, Manual of Court Martial, Quartermaster's Manual, Army Regulations; various blank forms also are furnished.

Uniform

The uniforms are the same as those used by the U. S. Army, and will be furnished free to each student. A new uniform is furnished to the student each year. Extra parts of the uniform may be purchased at cost from the Zone Supply Officer.

Summer Camps

Every year, immediately at the close of the third quarter, a summer camp will be held for the purpose of practical instruction in field work. The U. S. Government meets the student's expense at these camps- including transportation and extra uniforms.

Aim

It is the final purpose of the course to make Reserve Officers for the army, so that if another emergency should arise the United States could immediately put in the field an ample supply of well-trained men to able to take command of troops.

COURSES.

Senior Division, R. O T. C.

Basic Course

1. **Military Science I.** Freshmen year, first half, lectures, recitations, and military drill, three hours a week.

The work of this course is divided as follows:

(a) Practical: Physical drill; infantry drill; school of the soldier, squad and company in close and extended order; preliminary instruction, sighting, position and aiming drills, gallery practice, nomenclature and care of rifle and equipment.

(b) Theoretical: Theory of target practice, individual and collective military organization; map reading; service of security; personal hygiene.

2. **Military Science II.** Freshman year, second half, lectures, recitations and military drill, three hours a week. Prerequisite; Military Science I.

The work of this course is divided as follows:

(a) Practical: Physical drill; infantry drill; school of the battalion; ceremonies; manuals; bayonet combat; entrenchment; first-aid instruction; range and gallery practice.

(b) Theoretical: Lectures on military policy as shown by military history of the United States, and military obligation of citzenship; service of information; combat; infantry drill regulations to include the school of the company; camp sanitation for small commands.

3. **Military Science III.** Sophomore year, first half. Lectures, recitations and military drill, three hours a week. Prerequisite; Military Science II.

(a) Practical: Same as 2 (a); combat firing.

(b) Theoretical: Infantry Drill Regulations, to include the school of the battalion and combat; small arms firing regulations; lectures as in 2 (b); map reading; camp sanitation and camping expedients.

4. **Military Science IV.** Sophomore year, second half. Lectures, recitations and military drill, three hours a week. Prerequisite; Military Science III.

The work of this course is divided as follows:

(a) Practical: The same as 2 (a); signaling; semaphore and first-aid; sand table work; range practice.

(b) Theoretical: Lectures on recent military history; service of information and security; marches and camping.

The first two years work when entered upon is a prerequisite for graduation carrying 5 credits. The advance course that follows is voluntary but carries with it the government scholarship of about $125.00 per year in addition to uniforms and the privilege of securing a Lieutenants Commission in the Officers Reserve Corps.

Advanced Course

5. **Military Science V.** Junior year, first half. Lectures, recitations and military drill, five hours a week. Prerequisite; Military Science IV.

This course is divided into:

(a) Practical: Duties consistent with rank of cadet officers and non-commissioned officers in connection with the courses 1, 2, 3, and 4; military sketching; discipline and handling of men.

(b) Theoretical: Minor tactics: field orders; map maneuvers, company liaison, topography, military engineering.

6. **Military Science VI.** Junior year, second half. Lectures, recitations and military drill, five hours a week. Prerequisite; Military Science V.

The course is divided into:

(a) Practical: Same as course 5 (a).

(b) Theoretical: Minor tactics; map maneuvers continued; elements of international law; military law; sanitation

7. **Military Science VII.** Senior year, first half. Lectures, recitation and military drill; five hours a week. Prerequisite; Military Science VI.

This course is divided into:

(a) Practical: Same as course 5 (a).

(b) Theoretical. Tactical problems; map maneuvers; proceedings of court-martial; gradual growth of principles of international law embodied in American diplomacy, legislation and treaties; psychology of war and kindred subjects; general principles of strategy to show relations between the statesman and the soldier; military engineering; company administration.

8. **Military Science VIII.** Senior year, second half. Lectures, recitations and military drill, five hours a week. Prerequisite; Military Science VII.

This course is divided into:

(a) Practical: Same as course 5 (a).

(b) Theoretical: Tactical problems; map maneuvers; rifle in war; lectures on military history and policy; orders and messages; tactical walks; military history.

ATHLETIC DEPARTMENT

-----------------------------------, Director

Ohio Northern became a member of "Ohio Conference," better known as the "Big Six" of Ohio, on October 13, 1916.

Athletic Coaching Courses

Designed for those intending to teach and coach. A quarter to each sport, all sports in season.

Football—Theoretical: Rules, offense and defense; generalship and strategy. Practical: Training, conditioning, and players' equipment; punting, drop kicking, place kicking, kick off, forward passing; tackling dummy and charging sled; special drills for linemen, ends, and backs; following the ball, interference, team work; fundamental plays, freak plays, signal systems. Lectures; practical work.

Basketball—Coaching; passing; goal throwing; dribbling; team play; condition; practical work.

Baseball—Batting; base running; fielding each position; team work and coaching; rules; physical condition; lectures; practical work.

Physical Training for Men

This work is organized for the development of the physical man, with a view to keeping him in good, sound health and at the same time teaching him simplified methods which he may be able to use elsewhere, without costly apparatus.

I. **Exercise.** Floor drills; calisthenics, wands; dumbbells; Indian clubs; chinning apparatus and horizontal bar work; jumping and vaulting; medicine ball drills; rowing machine; chest weight meachine; swinging rings.

II. **Advanced Gym.** (Elective). Parallel bars; horizontal bar; Milo adjustable bar bed; boxing, wrestling and tumbling; bag punching; horse vaulting.

Physical Training for Women

Lighter, yet similar, work is arranged for women, with a view to develop endurance, agility and grace.

HONORARY DEGREES, 1919

Brinton, George M.	(B.Ped.)	Carlsbad, N. M.
Cole, Ralph D.	(LL.D.)	Findlay, O.
Cooke, James Francis	(Mus.D.)	Philadelphia, Pa.
Dunham, Warren J.	(D.D.)	Dayton, O.
Harney, James Willoughby	(D.D.)	Wilmore, Ky.
Helms, David H.	(D.D.)	Lima, O.
Gramm, B. A.	(A.M.)	Lima, O.
Richards, Joseph Joy	(D.D.)	Norwalk, O.
Waring, Ernest C.	(Litt.D.)	Cincinnati, O.
Weaver, Edward S.	(D.D.)	Springfield, O.

HONORARY DEGREES, 1920

Hines, Joseph A.	(A.M.)	Athens, O.

GRADUATES, 1919

Liberal Arts

Clifford, Elmer Ellsworth	(B.S.)	Cleveland
Copeland, Don Herbert	(A.B.)	Wapakoneta
Grimes, Adelaide	(B.S.)	South Charleston
Hindall, Clarence D.	(B.S.)	Ada
Spellman, Ruth Cecilia	(A.B.)	Ada
Wengerd, Christian R.	(A.B.)	Middlebranch

Education

Armentrout, Edna L.	(Grad.Ped.)	Foraker
Barnes, Hattie	(Grad.Ped.)	Hamilton
Black, Mary	(Grad.Ped.)	Lima
Bowers, Aleta Rose	(B.S. in Ed.)	Ada
Carey, Alberta	(Grad.Ped.)	Lima
Crissy, Edith	(B.S. in Ed.)	Ada
Dally, Audrey Rowena	(Grad.Ped)	Ada
Fisher, Glen Marquis	(B.S. in Ed.)	Westerville
Gordon, Hannah Robinson	(Grad.Ped.)	Lima
Helms, Seona	(Grad.Ped.)	Lima
Keville, Nora	(Grad.Ped.)	Lima
Leech, Clara	(Grad.Ped.)	Lima
Leech, Marjorie	(Grad.Ped.)	Lima
Loy, Frank L.	(B.S. in Ed.)	Alger
McCrea, Melba Gladys	(Grad.Ped.)	Bloomingburg
Moore, Benjamin Arthur	(B.S. in Ed.)	Stryker
Musser, Sadie	(Grad.Ped.)	Lima
Ogden, Maude Gertrude	(Grad.Ped)	Ada

Parsons, Ruth L.	(Grad.Ped.)	Ambridge, Pa.
Retterer, Edith Irene	(B.S. in Ed.)	Harpster
Simpson, Ethel	(Grad.Ped.)	Lima
Smith, Harriet Vergon	(B.S. in Ed.)	Ada
Sours, Louella M.	(Grad.Ped.)	Middletown
Stuve, Lucille A.	(Grad.Ped.)	Deshler
Tabor, Geneva	(B.S. in Ed.)	Ada
Teal, Fred L.	(B.S. in Ed.)	Lima
Trimmer, Grace M.	(Grad.Ped.)	Plymouth
Warren, Dorothy	(B.S. in Ed.)	Ada
Winemiller, Helen Lucille	(Grad.Ped.)	Lima
Wolfe, Wade	(B.S. in Ed.)	Rockford

Engineering

Arcante, Joseph A.	(B.S. in E.E.)	Ada
Brace, George R.	(B.S. in E.E.)	Toledo
Bochenek, David	(B.S. in C.E.)	Elizabeth, N. J.
Braun, Karl Christian	(B.S. in C.E.)	Philadelphia, Pa.
Clark, Winsor O.	(B.S. in C.E.)	Frankfort, N. Y.
Colin, Alphonse G.	(B.S. in C.E.)	Seville, Spain
Comstock, Fred G	(B.S. in C.E.)	Housatonic, Mass.
Cwirco, John Joseph	(B.S. in M.E.)	Niesweiz, Poland
Dagani, Fidel Curato	(B.S. in C.E.)	Phillipine Ids.
Davidson, Frank W.	(B.S. in E.E.)	Ada
Diniz, Waldemiro Alfonso	B.S. in E.E.)	Minas Geraes, Brazil
Finley, E. Max	(B.S. in M.E.)	Ada
France, Carlin Alexander	(B.S. in E.E.)	Bartlett
Golden, Maurice Henry	(B.S. in C.E.)	Winnepeg, Canada
Henshaw, Ralph L.	(B.S. in E.E.)	Evan City, Pa.
Hack, Paul A.	(B.S. n C.E.)	Salem
Hobson, Howard Emerson	(B.S. in M.E.)	Bartlette
Holsborg, Philip	(B.S. in C.E.)	Pittsfield, Mass.
Jackson, David Carl	(B.S. in E.E.)	Gibsonburg
Jones, Orton H.	(B.S. in C.E.)	Custer
Landers, Floyd H.	B.S. in Ch.E.)	Whitney Pt. N. Y.
Lee, Ewe Aik	(B.S. in E.E.)	Singapore Malaysis
Lotz, Edwin H.	(B.S. in C.E.)	Ada
Magid, Leo	(B.S. in C.E.)	New York City
Manusov, Philip	(C.E.)	Maplewood, N. Y.
McNally, Winsor A.	(B.S. in Ch.E.)	New Castle, Pa.
Nobrega, Clovas da	(B.S. in E.E.)	Pernambuco, Brazil
Murphy, Edward Francis	(B.S. in M.E.)	Turnars Falls, Mass.
Lewandosky, Julio	(B.S. in C.E.)	Columbia, Brazil
Parsons, Frank Whiton	(B.S. in E.E.)	Wakeman
Pereira, Joan de Macedo	(B.S. in C.E.)	Para, Brazil
Ribeiro, Manoel Gomes	(B.S. in M.E.)	Paranagua, Brazil
Rhoades, Henry Albert	(B.S. in M.E.)	Belle Vernon, Pa.
South, Charles Kenneth	(B.S. in E.E.)	Hamler

Summers, John Edgar	(B.S. in E.E.)	Frederick, Md.
Tavares, Octavio	(B.S. in E.E.)	Recife, Brazil
Trigoso, Marcos	(B.S. in C.E.)	Iquitos, Peru
Trumble, Leslie A.	(B.S. in E.E.)	Bay City, Mich.
Victor, Louis	(B.S. in C.E.)	New York City
Vogel, Max	(B.S. in C.E.)	New York City
Williams, Lawrence E.	(B.S. in C.E.)	Barlette
Fyke, F. C.	(M.E.)	Elizabeth, N. J.

Law

Chestosky, Hugo F.	(LL.B.)	Dillon Vale
Rodgers, Archibald McKinley	(LL.B.)	Ada
Spellman, James Ralph	(LL.B.)	Ada

Pharmacy

Cantallops, Jose M.	(Ph.G.)	Cienfuegus, Cuba
Erwin, Thomas C.	(Ph.G.)	Ada
Harper, Howard Lewis	(Ph.G.)	Jamestown
Morneault, Romeo Athony	(Ph.G.)	Fort Kent, Me.
Osmun, Ralph Harper	(Ph.G.)	Marion
Pace, Merle K.	(Ph.G.)	Marion
Patterson, Bernice	(Ph.G.)	Lebanon
Reed, Harold Davis	(Ph.G.)	Amanda
Rodrigeuz, Florencio E.	(Ph.G.)	Formento, Cuba
Woodward, Harold Herbert	(Ph.G.)	Alliance

Music

Ames, Dorothy Jean	(Grad. Piano)	Ada
Davis, Nina Marie	(Piano)	Findlay
Estill, Lydia	(Piano)	Middlepoint
May, Nevo	(Pub.Sch.M.)	Ft. Recovery
Schubert, Grace	(Pub.Sch.M.)	Holgate

Expression

Hamilton, Ruth A.	(B.Exp.)	Lima
Huff, Frances Wave	(B.Exp.)	Plain City

Commerce

Ash, Mary	(Stenography)	Ada
Behrens, Fred	Stenography	Napoleon
Blain, Miriam	(B'k'g & Sten.)	Marysville
Burgeson, Agnes	(Ped. in Com.)	Poland
Eversole, Lucinda	(B'k'g & Sten.)	Ada
Foreman, Wilbur	(Bookkeeping)	Pittsford, N. Y.
Gills, Anna Moe	(Bookkeeping)	Ada
Hetrick, Ernestine	(Bookkeeping)	Ada
Jones, Blodwyn	(B'k'g & Sten.)	Ada

Kates, Bernard	(Bookkeeping)	Pittsford, N. Y.
Lotz, Mabel A.	(B'k'g & Sten.)	Ada
McNeil, Viola	(Stenography)	Rochester, N. Y.
Mealy, Helen	(Ped. in Com.)	Clarksburg, W. Va.
Moser, Victor	(Ped. in Com.)	Dalton
Parshall, Aleta	(Stenography)	Ada
Ream, Almo	(Bookkeeping)	Ada
Solomon, Helen	(B'k'g & Sten.)	Ada
Sterling, Ione Ream	(Bookkeeping)	Ada
Tu, Miang Iiang	(B.C.S.)	Hankon, China
Wyland, Eulalie	(B'k'g & Sten.)	Conover
Rocky, Lelia	(Bookkeeping)	Ada

GRADUATES, 1920

Liberal Arts

Cussans, Frank	(B.S.)	Ada
Focht, Bloom H.	(B.S.)	Waynesfield
Harvey, Hannah Khiva	(A.B.)	Ada
King, Lester Francis	(B.S.)	Dunkirk
Lyman, Raymond S.	(B.S.)	Kenton
Mayer, Walter E.	(B.S.)	Hume
Mercer, Frank	(A.B.)	Ada
Phillips, Sarah Louella	(A.B.)	Ada
Pugh, Roy Monroe	(B.S.)	Ada
Shew, Frank L.	(B.S.)	Ada
Smith, Harriet Vergon	(A.B.)	Ada
Snyder, Ruth Lucille	(A.B.)	Ada
Trostle, Wayne M.	(B.S.)	Pandora
Wahl, Orlea	(B.S.)	Payne
Warren, Margery	(A.B.)	Ada

Education

Carey, Hazel Pearl	(Grad. in Ped.)	Ada
Dobbins, Hazel May	(B.S. in Ed.)	Ada
Gilmer, Mabel Ann	(Grad. in Ped.)	Waynesfield
Gossard, Clara Cristel	(B.S. in Ed.)	Ada
Hines, Iva Cronin	(B.S. in Ed.)	Woodsville
Leeka, Carl Ellis	(Grad. in Ped.)	Marion
McElroy, Ethel	(B.S. in Ed.)	Ada
Miller, Harley Hollis	(B.S. in Ed.)	
Mollenberg, Karl E.	(B.S. in Ed.)	Portage
Owens, Sarah Margaret	(Grad. in Ped.)	Bluffton
Palmer, Charles Edward	(B.S. in Ed.)	Ada
Parson, Esther Jane	(B.S. in Ed.)	Wilkinsburg, Pa.
Reese, Lloyd William	(B.S. in Ed.)	Elida
Shafer, Leota DeLaney	(Grad. in Ped.)	Milford Center
Slager, Fred Cletis	(B.S. in Ed.)	Chillicothe

Sleesman, Marm	(Grad. in Ped.)	Ada
Thrasher, Amanda Lee	(B.S. in Ed.)	Oakwood
Warren, Lois Gertrude	(Grad. in Ped.)	Dunkirk
Wilson, Georgiana	(Grad. in Ped.)	Dunkirk
Yeasel, Evelyn	(Grad. in Ped.)	North Lewisburg

Engineering

Alves, Orlando F.	(B.S. in E.E.)	Rio de Janeiro, Brazil
Bargman, Bruce Bertram	(B.S. in M.E.)	Millville, Pa.
Beatty, Lowell D.	(B.S. in M.E.)	Greer
Berry, Oliver F.	(B.S. in E.E.)	Geneva
Bochenek, David Maurice	(B.S. in E.E.)	Elizabeth, N. J.
Burnside, Carlos B.	(B.S. in C.E.)	Mt. Victory
Campello, Mario de Verney	(B.S. in C.E.)	Rio de Janeiro, Brazil
Cooke, Harry A.	(C.E.)	Eaglewood, N. J.
Corbett, Jedd J.	(B.S. in C. E.)	Ada
Cordero, Luis F.	(B.S. in C.E.)	Concepcion, Col., S. A.
Downing J. Donald	(B.S. in E.E.)	Belle Centre
Elbin, Guy H.	(C.E.)	Ada
Elder, Maurics E.	(B.S. in E.E.)	Ada
Gerold, Harold Ferdlin	(B.S. in C.E.)	Sandusky
Gilbreth, George Earle	(B.S. in M.E.)	Marion
Gordon, Augustin Felix	(B.S. in C.E.)	Port au Prince, Haiti
Hecox, Leon C.	(B.S. in M.E.)	Ada
Huff, Troy C.	(B.S. in C.E.)	Findlay
Hunter, James S.	(B.S. in Ch.E.)	Gastonia, N. C.
Jepson, Mark	(B.S. in C.E.)	Little Valley, N. Y.
Keady, Herbert W.	(B.S. in C.E.)	Centerburg
Kemal, Achki	(B.S. in C.E.)	Constantinople, Turkey
Lane, Eric D.	(B.S. in C.E.)	Martins Ferry
Leininger Raymond S.	(B.S. in C.E.)	Sinking Spring, Pa.
Long, Ralph E.	(B.S. in E.E.)	Lake
Lotz, Edwin H.	(C.E.)	Ada
Lynde, Walter L.	(B.S. in E.E.)	Leniaville
Marshall, William M.	(B.S. in Ch.E.)	Carrollton
Maurer, Melvin Homer	(B.S. in C.E.)	Alliance
McLean, Lawrence G.	(B.S. in C.E.)	Jefferson S. C.
Miller Clarence M.	(B.S. in C.E.)	Pittsfield, Mass.
Mirza, Joseph Y.	(B.S. in C.E.)	Persia
Moon, Argyle J.	(B.S. in C.E.)	Centerville
Moses, Merton S.	(B.S. in E.E.)	Malvern
Netto, Oscavo C.	(B.S. in C.E.)	Cataguazes, Brazil
Nobrega, Clovis N.	(E.E.)	Perambuco, Brazil
Quigley, Ray Lester	(B.S. in E.E.)	Chardon
Pugh, Reuben D.	(B.S. in C. E.)	Ada
Reynolds, Chauncey E.	(B.S. in Ch.E.)	Traupsburg, N. Y.
Rice, Edgar Clarence	(B.S. in M.E.)	New Philadelphia
Rowand, Alfred M.	(B.S. in E.E.)	Springfield

Saramago, Jose Ribeiro	(B.S. in E.E.)	Rio de Janeiro, Brazil
Sarisky, John A.	(B.S. in E.E.)	Lowellville
Seeley, Charles M.	(B.S. in Ch.E.)	Berwick, Pa.
Selpien, Carl	(B.S. in E.E.)	Ada
Sih, L.	(B.S. in C.E.)	Sian Fu, China
Silverman,, Hymen B.	(B.S. in M.E.)	Brewster
Smith, Loring L.	(C.E.)	
Stamm, Edward P.	(B.S. in C.E.)	Sharpsburg, Pa.
Steese, Arthur Raymond	(B.S. in C.E.)	Canton
Swihart, Harry M.	(B.S. in M.E.)	Brewster
Tavares, Octavio	(B.S. in C.E.)	Recife, Brazil
Weinberg, Jacob	(B.S. in Ch.E.)	New York City
Williams, John A.	(B.S. in C.E.)	Granville
Zimmerman, Monroe J.	(B.S. in E.E.)	New York City

Law

Cope, Frank F.	(LL.B.)	Rogers
Crist, Harry H.	(LL.B.)	Defiance
Hettish, F. Milo	(LL.B.)	Erie, Pa.
Martin, F. Royal	(LL.B.)	Marion
Meenan, Joseph L.	(LL.B.)	New Lexington
Neville, Carl E.	(LL.B.)	Lima
Weaver, Lisle McCrea	(LL.B.)	Bryan

Pharmacy

Ashton, Paul O.	(Ph.G.)	Lowellville
Baker, Emmett H.	(Ph.G.)	Uhricksville
Birk, Kathryn E.	(Ph.G.)	Bucyrus
Botkin, Wendell H.	(Ph.G.)	Northampton
Duvall, Ralph W.	(Ph.G.)	Bethesda
Ernsberger, Lloyd B.	(Ph.G.)	Ada
Farrow, Charles D.	(Ph.G.)	Ashtabula
Frisbie, Lyell E.	(Ph.G.)	Prairie Depot
Gray, Otto Payne	(Ph.G.)	Rushmore
Herr, Theodore	(Ph.G.)	Napoleon
Hoffman, J. Earle	(Ph.G.)	Mansfield
Hood, James L.	(Ph.G.)	Centerburg
McCleery, Charles D.	(B.S. in Pharm.)	Ada
McNally, Marguerite J.	(Ph.G.)	Newcastle, Pa.
Milliman, Waldo W.	(Ph.G.)	Edon
Pace, Harry W.	(Ph.G.)	Marion
Price, Fallie Carle	(Ph.G.)	Zanesville
Prilliman, Cloyd H.	(Ph.G.)	Delphos
Reidenbach, Arthur	(Ph.G.)	Marietta
Roth, John	(Ph.G.)	Lorain
Seeley, Elliott W.	(Ph.G.)	Lodi
Stewart, Harold L.	(Ph.G.)	Greenfield
Uriarto, Bernardo	(Ph.G.)	Havana, Cuba
Waichunas, Augustus Z.	(Ph.G.)	Albany, N. Y.

Commerce

Bastos, Maria Goncalves	(B'k'g & Sten.)	Rio de Janeiro, Brazil
Beuchert, Frieda	(Bookkeeping)	Ada
Biddle, Helen Lucille	(Ped. in Com.)	Kenton
Biddlestone, Edna Mae	(Stenography)	Niles
Blain, Miriam	(Ped in Com.)	Marysville
Bower, Isabelle	(Bookkeeping)	Waldo
Botkins, Roxie Gentis	(Bookkeeping)	Ada
Burgeson, Agnes Lucille	(B'k'g & Sten.)	Poland
Clinger, Blanche May	(Stenography)	Forest
Cretors, Raymond B.	(Bookkeeping)	Ada
Fang, Tsu Hing	(Bookkeeping)	Shanghai, China
Garland, Sterner	(Stenography)	
Gustafson, Carl Albert	(Bookkeeping)	Jamestown, N. Y.
Helser, Lois	(Stenography)	Ada
Hoffman, Roland S.	(Bookkeeping)	Danville, Ill.
Holtz, Carl William	B'k'g & Sten.)	Angelica, N. Y.
Hoover, Lucille M.	(Stenography)	Bucyrus
Kair, Ronald Bernard	(Bookkeeping)	Mill River, Mass.
Kear, Charlotte Alice	(Stenography)	Forest
Kimball, Milo	(B.S.C.)	
Love, Hallie Rose	(Stenography)	Steubenville
McElroy, Naomi	(Stenography)	Ada
Myers, Helen Elizabeth	(Stenography)	Kenton
Pore, Rhea Louise	(Stenography)	Jenera
Reese, Marie Bussert	(Stenography)	Ada
Rex, Neva O.	(Stenography)	Mt. Blanchard
Ringer, Grace	(Bookkeeping)	Frankfort
Silver, James Roger	(Bookkeeping)	Wooster
Smiley, Arthur D.	(Bookkeeping)	Uniontown, Pa.
Smith, Eunice Mae	(B'k'g & Sten.)	Ada
Wingard, Jay F.	(Bookkeeping)	Sharon, Pa.
Wolcott, J. Roger	(Bookkeeping)	Conover
Wyland, Eulalie	(Ped. in Com.)	Conover
Wyss, Martha Marie	(Stenography)	Forest

Music

Barnes, Vera L.	(Ped. in Voice)	Ada
Weber, Walter R.	(Voice)	VanWert

Expression

Ingledue, Grace	(Grad. in Exp.)	Harrod
Kaufman, Harry D.	(Grad. in Exp.)	Orville

REGISTER OF UNDER-GRADUATES

(Spring Quarter, March 8, 1919—Summer Quarter, 1920, inclusive)

LIBERAL ARTS

Abbe, Alfred C.---Los Angles, Calif.
Adams, Noel B.----------Franklin
Agin, Merle------------- Hardin
Allinger, J. H.------------Logan
Arena, John------New York N. Y.
Ault, Hilda------------ Wyandot
Baird, S. Elma-- Washington, Pa.
Ballard, William H.---------Logan
Bernstein, Alber---------- Allen
Bernsten, Leona---------- Allen
Black, Richard F.-Berkshire, Mass.
Blough, Homer C.---Somerset, Pa.
Brewer, Ruth------------ Hardin
Brown, Mary Clare---------Allen
Buchele, E. E.---------- Hardin
Churchill, Chester A. A.------Allen
Conklin, H. A.------------Hardin
Cottner Wilbur C.-----------Allen
Cotterman, B. W.---------Hardin
Creedman, C. F.---------Cuyahoga
Daily, Raymond----------- Pike
Davis, Dwght M.--------- Mercer
Dobbins, Raymond---------Hardin
Donithen, H. A.-----------Hardin
Ely, George-----------Montgomery
Erickson, Henry----Alleghany, Pa.
Eversole, Lucinda----------Hardin
Fidler, W. Royal------Columbiona
Folk, Curtiss P.----------Hancock
Ford, Samuel------------ Hardin
Fusco, James---------- Trumbull
Gallapos, Warren------------
Chautauqua, N. Y.
Garwood, Guy H.--------Hancock
Goodman, Ben T.-----------Hardin
Greer, Dorothy---------- Hardin
Griebling, Charles------ Richland
Haber, Thomas B.--------- Darke
Harris Florence E.---------Hardin
Harrod, Jesse R.-----------Hardin
Hawver, Harley--------- Paulding
Hullinger, Mildred -------Hardin
Imhoff, Robert E.---Atlantic, N. J.
Karns, Frank H.------------Wood
Katherman, J. L.----------Miami
Kemp, Wilbur A.-----------Miami
Leist, James H.---------Pickaway
Love, Wynona----------Jefferson
Lynde, Mrs. Maurice-Oceola, Mich.
Martin, O. R.--------------Darke
Matz, Edmund----------- Monroe
Mayer, Walter E.----------- Allen
McElroy, Madeline-------- Hardin
McGinnis, Wilma--------- Hardin
Meredith, Harold J.-------Warren
Mertz, Merle------------- Hardin
Miller, Stanley----------- Hardin
Mollenberg, Karl E.---------Wood
Monohan, George M.----------
Worcester, Mass.
Moorman, Alan----------- Hardin
Moorman, Hazel---------- Hardin
Nagle, Nathan--Cattaraugus, N. Y.
Narragon, Frederick--------- Erie
Neiswander, B. S.--------Hancock
Neville, Carl-------------- Allen
Pealer, Arthur---------- Richland
Poling, Neil--------------Hardin
Poling, Paul--------------Hardin
Potter, John A.------------ Allen
Pugh, Roy M.----------- Monroe
Purdue, Joseph----------, Norway
Quail, Harold H.--------------
San Joachin, Calif.
Rawers, A. J.------------Auglaize
Rawers, Clarence B.-------Auglaize
Rapp. O. W.-------------Summit
Reed, E. H.---------------Hardin
Ricard, George A.-----Indiana, Pa.
Schinderwolf, Helena-------Hardin
Schweinfurth, Clifford L.---Marion
Shank, Ruth--------------Hardin
Shea, William-----Hamden, Mass.
Shepherd, Howard A.-----Belmont
Shew, Frank L.------------Hardin
Smith, Willis Eugene--------Allen
Speese, George A.----------Logan
Speese, Ruskin------------ Logan

Spockey, Elsie------------ Wood
Spry, W. H.----Houghton, Mich.
Stephens, Raymond D.-----Auglaize
Taylor, Bernard------ Champaign
Thompson, J. Earle----------
West Moreland, Pa.
Thompson, Wayne------Mahoning
Thrasher, Amanda-------Paulding
Valdivia, C. Policarpo------Peru
Van Horn, Luke----------Hardin
Wagner, J. A. B.----------Gallia
Wenger, Byron----------- Stark
Wiseman, Merrill ------Lawrence
Wyman, R. S.----------Ashtabula
Wynn, I. C.-------------- Allen

EDUCATION

Adams, Golda---------------Allen
Adams, William ----------Marion
Aikman, Effie M.----------Shelby
Alexander, Bertha F.------Darke
Allendar, A. M.-----------Hancock
Alspach, Marle-----------Hancock
Alpspach, Wanda---------Wyandot
Arthur, Mabel May------Madison
Artz, Ruth Marie----------Marion
Arny, Margie-------------Hardin
Butler, Hugh LeRoy------Hardin
Bendure, Harley Lake----Harrison
Baltzell, Dwight-----------Mercer
Baughman, Edwin A.------Morrow
Barker, Charles Reed-------Knox
Becker, George-----------VanWert
Busick, Verna------------Paulding
Blatt, Carrie--------------Ottawa
Born, Margaret Marie-----Hardin
Billger, Addie Katherine--Auglaize
Burdett, Cora-------------Hardin
Baning, Lucille-----------Auglaize
Baning, Grace -----------Auglaize
Brock, Lela Given---------Mercer
Bailey, Winona-----------Auglaize
Burgett, Ruth G.---------Clermont
Bain, Blanche Lela---------Marion
Byerly, Treva Belle------Madison
Boice, Zedna--------------Mercer
Brown, Nancy Margaret----Mercer
Burnett, Edna,--------------Allen
Blatt, Alice Marie---------Ottawa
Brokate, Ople-------------Ottawa
Brokate, Lucile Sophia----Ottawa
Behm, Verna Vernell-----Warren
Boerstler, Mary Gertrude------
---------------------Fairfield
Baldwin, Grace-----------Marion
Boardman, Frances B.-----Wyandot
Brittain, Ethel--------------Allen
Baker, Jennie -------------Wood
Bowen, Maude-------------Shelby
Burnett, Lois---------------Allen
Boice, Zoa----------------Mercer
Bailey, Jane-------------Auglaize
Brown, Bessie-----------Sandusky
Bugante, Faustino----Dingle, P. I.
Ballenbacher, Henry ------Mercer
Brandon, Myron-----------Mercer
Brungarner, Orville-----Pickaway
Burgett, George W.-------Clermont
Baley, Charles-------------Mercer
Black, Richard F.--Bershire, Mass.
Brown, Ernest-----------Paulding
Born, Esther ------------Wyandot
Bailey, Joyce Smith-----Auglaize
Burnett, Freda--------------Allen
Bresler, Gladys -----------Hardin
Beoghler, Myrtle-----------Mercer
Boyd, Lenora---------------Knox
Blair, Gladys-----------Crawford
Boord, Mrs. C. M.----------Union
Beurgett, Ruth ---------Clermont
Barrington, Mabel-------Auglaize
Bowen, Elsie-------------Shelby
Buhson, Martha------------Union
Black, Emma---------------Allen
Boone, Frances-----------Hardin
Bright, Mildred ---------Hancock
Brown, Birdie-------------Brown
Baker, Fairy--------------Hardin
Baker, Berda--------------Hardin
Burnett, Edna--------------Allen
Barnes, Lucille-----------Hardin
Breese, Mildred ----------Marion
Betzel, Rosa -------------Mercer

Bedford, Mary	Allen
Brian, Velma	Paulding
Bowsher, Erma	Allen
Boner, Sarah	Delaware
Bowers, Edith	Hardin
Boon, Esther	Wyandot
Benner, Ruth	Hardin
Bearinger, Cecile	Hardin
Brown, Gladys	Allen
Boutwell, Rosa	Hardin
Bowsher, Mabel	Allen
BeVan, Margaret	Allen
Bayliss, Irma	Wood
Chambers, George	Ottawa
Conner, Ezra Mason	Hardin
Curry, Homer P.	Hardin
Clapper, D. W.	Logan
Caterman, B. W.	Hardin
Connaughton, John F.	Darke
Criger, Earl K.	Wyandot
Clark, Ruth	Hardin
Conklin, Hazel	Delaware
Cretors, Ruth E.	Champaign
Coats, Rebecca Mary A.	Hardin
Cady, Lucy Brown	Washington
Corbett, Goldie Marie	Allen
Colter, Bernice Marie	VanWert
Carey, Birdie	Allen
Conner, Clarence P.	Hardin
Coates, Dallas	Mercer
Coates, Ora	Mercer
Conner, Mason	Hardin
Chalfin, Homer	Hardin
Coates, Rebecca	Hardin
Cole, Flossie	Seneca
Collins, Lavon	Hardin
Craven, Marian	Richland
Coe, Chloe	Knox
Carr, Edith	Union
Chrismer, Elizabeth	Auglaize
Clinger, Inez	Wyandot
Clabaugh, Mrs. Eugene	Hardin
Cole, Treva	Shelby
Coate, Garnet	Hardin
Cantrell, Cleo	Hardin
Clark, Zona	Hardin
Clizbie, Clara	Allen
Dalley, Audrey	Hardin
Ditzler, Ellen	Allen
Dunson, Beulah	Hardin
Dixon, Opal Marie	Logan
Duvall, Lulu Edith	Auglaize
Davis, Clara Ellen	Scioto
Davis, Mary Elizabeth	Scioto
Diehl, Laura A.	Hocking
Dillon, Mina	Seneca
Dillon, Mae	Seneca
Dispennette, William E.	Licking
Darling, Dwight	Coshocton
Dailey, Raymond	Pike
Domigan, Grace	Licking
DeBalt Hazel	Franklin
Delms, Louise	Ross
Davis, Margaret	Scioto
Davis, Helen	Adams
Dirmeyer, Ruth	Hardin
Davis, Blanche	Wyandot
Elzay, Anna Margaret	Hardin
Ellison, Clarence	Hardin
Emery, Sam B.	Lucas
Essex, Carl	Paulding
Eddy, Charles W.	Union
Evard, Mildred	Allen, Ind.
Elder, Nova	Logan
Eldery, Helen	Logan
Erven, Ruth	Henry
Ewing, Ethel	Hardin
Ewing, Miriam	Hardin
Ewing, Annah	Hardin
Fisher, Paul E.	Mercer
Freeman, Doris	Marion
Fink, Rutha	Hardin
France, Sara	Washington
Funk, Enid L.	Paulding
Fisher, Opal	Hardin
Fulkerson, Lucie	Hardin
Fisher, Ada	Mercer
Frazer, Mabelle	Hardin
Flinn, Louise	Hardin
Fisher, Hazel L.	Hardin
Fisher, Hazel	Tuscarawas
Foster, Lorena	Hancock
Fink, Mamie Zoe	Hancock
Fisher, Pauline	Kiowa, Colo.
Focht, Marie	Cuyahoga
Fisher, Edith M.	Mercer
Gross, Raymond Daniel	Hardin
Gable, Clarence	Seneca

Galliman, Anna	Mercer
Grimes, Adelaide	Clark
Gigandet, Esther	Shelby
Gossard, Marjorie	Madison
Gigandet, Mary	Shelby
Grappy, Lucil Alice	Hardin
Germann, Stella Viola	VanWert
Gray, Frances Leila	Henry
Garling, Vera	Hardin
Gentis, Grace	Champaign
Godfrey, Helen Pearl	Allen
Gish, Ethel Lavinia	Shelby
Glenn, Helen	Pike
Glenn, Clare	Pike
Guy, Emma	Allen
Glenn, Kathryn	Pike
Graham, Ernest	Muskingum
Greenler, Dallas	Henry
Gallaposy, Ralph	Paulding
Godfrey, Helen	Allen
Geiger, Ruth	Hardin
Garmon, Lavonne	Hardin
Guthery, Susan M.	Marion
German, Stella	VanWert
Gigandet, Esther	Shelby
Hudson, N. Arthur	Paulding
Hudson, Chester Mario	Paulding
Harshman, Ralph	Hardin
Harris, Florence	Hardin
Henberger, Hazel	Hancock
Harner, Mae Maria	VanWert
Hood, Amy Fanchon	Paulding
Hart, Iris E.	Mercer
Howard, Edna	Hancock
Harvey, Claribel	Hardin
Herdman, Hazel	Pike
Hoegner, Clara	Allen
Heath, Helen	Allen
Hall, Mary	Allen
Hunsicker, Opal	Hardin
Harman, Hazel T.	Hardin
Harrod, Jesse R.	Hardin
Hall, Vaughn	Mercer
Hartrauft, Ezra	Montgomery, Pa.
Harvey, Merrill	Hardin
Heffner, George	Allen
Houpt, Lawrence H.	Wyandot
Henney, William F.	VanWert
Horn, Mildred	Auglaize
Harrison, Mayrie	Hardin
Hill, Lucile	Auglaize
Houser, Mary E.	Hardin
Hall, Viola	Hardin
Hitterpole, Leona	Auglaize
Hatcher, Mattie	Logan
Hover, Faye	Allen
Hincklin, Elizabeth, W.	Marion
Hardy, Naomi	Hardin
Hershner, Fay	Crawford
Hoel, Gladys	Mercer
Harris, Maurene	Hardin
Hayden, Zerish	Hardin
Hazelle, Alice	Allen
Herter, Lottie L.	Champaign
Johnson, Katie Georgiana	Hardin
Jenkins, Edyth Mae	Paulding
Jones, Edna Maud	Scioto
Jahraus, Clara	Erie
Johnson, Lois	Hardin
Jackson, Dee	Mercer
Jones, Dorothy	Hardin
Johnson, Clara	Madison
Knotts, Colby Clinton	Auglaize
Knepper, George D.	Hardin
Konrath, Vera Ruth	Mercer
Kantzer, Alice	Mercer
Knisley, Myra Elizabeth	Pike
Kieth, Nellie Marie	Allen
Kowalke, Clara	Marion
Kilbride, Mary	Erie
Kline, Anna	Allen
Kauble, Mary	Hardin
Kear, Charlotte	Hardin
Klingler, Tille	Hardin
Klingler, Wilma	Hardin
Kissell, Kathryn	Putnam
Kieth, Marjorie	Allen
Kieth, Nellie	Allen
Keller, Olive	Knox
Keller, Laura	Knox
Kelley, Mabel	Hardin
Klingler, Agnes	Hardin
Klingler, Mildred	Hardin
Kauble, Ruth	Hardin
Lewis, Ralph	Mercer
Lyons, Ralph Leonard	Darke
Lightle, John Reuben	Pike
Lewis, Chas. W.	Huron

Ludwig, Allen Leroy	Hardin
Lininger, Mary Victoria	Mercer
Leonard, Pauline	Butler
Leedy, Eliz. Katherine	Allen
Long, Hattie A.	Lorain
Lawrence, Cretora Jane	Hardin
Ludwig, Edna May	Hardin
Lewis, Violet	Allen
Loach, Jeanette	Henry
Ludwig, Fern	Hardin
Lewis, Nellie	Mercer
La Rue, Flora	Marion
Livingston, Roland	Hardin
Ludwig, Day	Hardin
Long, Lester	Hardin
Lewis, C. W.	Richland
Lutz, Zelma	Allen
Long, Mildred	Crawford
Law, Verena	Hardin
Moore, Benj. A.	Williams
Morin, W. H.	Morgan
McGuffey, Henry Clay	Hardin
McCarty, Lloyd	Allen
Martin, F. H.	Franklin
Miller, Herman L.	Marion
Montgomery, Albert	Fayette, Pa.
McLain, Catherine	Wyandot
McKim, Bertha	Hardin
McAdams, O. H.	Hardin
Major, Blanche Viola	Hardin
McCready, Trella I.	Hardin
Maddox, Mary	Delaware
McCrea, Blossom	Fayette
McDaniel, Gail Lucille	Hardin
McCrea, Hope	Fayette
Monison, Helen	Hardin
Miller, Sadie	Madison
Miller, Florence Esther	Marion
Miller, Alvena	Marion
Marshall, Louise E.	Pike
Myers, Mrs. Nora	Hardin
McCay, Dessa Jane	Madison
McBeth, Bertha Fern	Champaign
Merrell, Pearl	Coshocton
Marshall, Mary Ellen	Hardin
McElroy, Madeline	Hardin
McClellan, Hazel	Allen
Moreland, Winifred	Allen
Mertz, Madeline	Hancock
McCrea, Jennie	Fayette
Money, Cloyd. V.	Jay, Ind.
Motter, Erret, R	Hardin
Musser, Jno. B.	Allen
Martin, Forest	Wood
Morton, Harry	Hamilton
McCleary, C. W.	Allen
McWilliams, Lester	Hardin
McLaughlin, Earl	Miami
Milligan, Harry E.	Darke
Montgomery, Albert	Fayette, Pa.
Moore, Mabel	Mercer
McKinney, Beatrice	Allen
Mertz, Ruby	Hancock
Musgrave, Lottie	Hardin
Morris, Evelyn	Allen
Mohr, Susie	VanWert
McQuoin, Marie	Hardin
Martin, Mrs. Forest	Wood
Mohler, Thelma	VanWert
McPheron, Edna	Allen
May, Nevo	Mercer
Muny, Lela Mae	Fayette
Miller, Ruth	Hardin
Morrison, Clara	Hardin
McCoy, Doris	Allen
Milligan, Lucy	Brown
McCrea, Mrs. Trolla	Hardin
McWilliams, Mary	Hardin
Metz, Mae	Marion
McDonald, Esther	Marion
McElroy, Helen	Hardin
Mooreman, Thelma	Allen
McCoy, Mary	Madison
Norris, Delcie Veradine	Hardin
Nichell, Dorothy Nelle	Logan
Nye, Waveline Oguerita	Allen
Neely, Helen Jane	Hardin
Nolze, Bertha	Delaware
Newhouse, Samilda	Stark
Narragon, Frederick A.	Erie
Neiswander, Una	Hancock
Neal, Iva Deane S.	Hardin
Nau, Goldie	Hardin
Nichell, Norma	Auglaize
Norris, Letha	Hardin
Newman, Mary L.	Scioto
Owens, Claribel	Allen
Oliphant, Effie	Marion

Opdyke, James----Monroe, Mich.
Ober, J. B.----------------Wood
Oberly, Frieda,------------Hardin
Osgood, Ola M.-------------Allen
Paul, Edison Raymond------Shelby
Prior, Alexander Barclay--Mercer
Poling, Lester Raymond-----------------------Randolph, Ind.
Pond, Velmah-----------Paulding
Price, Lela Marie----------Hardin
Price, Effie Marguerite----Hardin
Poling, Mrs. W. O.---------Hardin
Pierce, Oval Gertrude---VanWert
Phillips, Grace---------Kent, Del.
Pinckney, Mary------------Lorain
Pollock, Wilbur --------------------------St. Lawrence, N. Y.
Patton, G. R.-----------Paulding
Pearsall, Carl C.-----------Clarion
Rummell, Lorena ----------Mercer
Pomeroy, Mildred----Greene, Pa.
Plummer, Mildred ---------Hardin
Purnell, Mary -----------Putnam
Paul, Ethel---------------Hardin
Phillips, Amy-------------Hardin
Poling, Edna--------------Hardin
Patton, Alma---------------Allen
Patton, Elma---------------Allen
Pore, Maud--------------Hancock
Price, Elizabeth K.----------Allen
Quay, Katherine-----------Morrow
Ralston, Henry Guy--------Hardin
Richey, Paul Dorence----Delaware
Reese, Lloyd Wm.-----------Allen
Royer, Wilbur Earl---------Logan
Root, William Ross------Coshocton
Ritchie, Tom H.----------Paulding
Ryder, Harold E.----------Geauga
Riley, Horatio-------------Mercer
Ruppright, Grace Winnie--Hardin
Romick, Flossie Maxine----Mercer
Rose, C. Hope-------------Hardin
Roof, Mable-------------Jefferson
Rhonemus, Mrs. Jessie----Hardin
Rabe, Ocie----------------Mercer
Rockey, Liela-------------Hardin
Ramey, Virgie-----------Delaware
Reichert, Lena A.------------Knox
Rogers, Bessie-------------Mercer
Ramer, Marie-------------Hardin
Ridgeway, Olive-----------Hardin
Scowden, H. B.--------------Pike
Sleppy, Ira F.--------------Darke
Speese, George Arthur-----Logan
Sharp, Paul---------------Hardin
Strahm, Mrs. R. A.---------Hardin
Scowden, Mrs. H. B.-------Hardin
Stowe, Lucille-------------Henry
Spriggs, Mabel Audrey----Mercer
Shidaker, Hazel------------Shelby
Strong, Roxie Lucille------Greene
Small, Forest May----------Darke
Sexton, Rachel Irvin--Mercer, Pa.
Shirk, Cora---------------Greene
Shaw, Clara Celeste---------Logan
Smith, Mildred Elizabeth--Marion
Smith, Mary Gertrude------Marion
Scowden, Metha Evelyn-------Pike
Simpson, Helen Elizabeth------------------------Tuscarawas
Schmeltz, Barbara Eliz.------Lucas
Schmeltz, Elizabeth ---------Lucas
Stone, Ethel Mary-------Crawford
Sandes, Jennie----------Ashtabula
Schnabel, Lena---------------Allen
Snider, Elsie ---------------Allen
Smith, Gwendolyn E.-----Williams
Stephens, Winnie------------Shelby
Speelman, Gertrude-------Crawford
Schwab, Modjeska ---------Seneca
Schroeder, Carl------------Mercer
Spriggs, Paul------------Paulding
Sevens, Richard R.--- ----Mercer
Smith, W. L.--------------Morgan
Still, Roy J.--------------Holmes
Smith, G. L.---------------Hardin
Snider, Rae -------------Auglaize
Shively, Mirtha----------Paulding
Spiegle, Kathryn----Somerset, Pa.
Shafer, Emma D.------------Union
Sherman, Mrs. Cleo---------Hardin
Shank, Lillian-------------Seneca
Shrader, Irene---------------Knox
Street, Dela---------------Hardin
Shaffer, Elma---------Cambria, Pa.
Stevens, Velma------------Greene
Simon, Helen--------------Putnam
Stang, Mrs. Anna L.-------Shelby

Switzer, Belva	Hardin
Sinkey, Artice	Delaware
Sousley, Blanche	Hardin
Strock, Edna	Paulding
Steinman, Glenna	Hardin
Sprain, Goldie	VanWert
Shadley, Ruby	Hardin
Shuster, Lucille	Hardin
Sinkey, Dorothy	Delaware
Terrell, C. W.	Perry
Tucker, David Guy	Knox
Tuohy, Emma Anise	Paulding
Truax, Mrs. Cora Miller	Logan
Threewits, Byron F.	Darke
Twigg, Julia	Wayne
Thomas, Neva	Allen
Thomas, Bertha	Paulding
Taylor, Martha	Champaign
Vogel, Ralph	Wyandot
Vassar, Lela	Hardin
Van Dorn, Ruth Eliz.	Wood
Voke, Ruby	Paulding
Van Atta, Ernest A.	Hardin
Vore, L. W.	Allen
Williams, Irvin H.	Paulding
Wilson, Riley	Auglaize
Wolfrey, Paul	Hardin
Windle, Jos. H.	Putnam
Williams, Clyde E.	Coshocton
Walker, Grover C.	Auglaize
Wood, Ray G.	Athens
West, Clara	Mercer
Wille, Edna	Mercer
Woodring, Dorothy	Ottawa
Weldy, Marie E.	VanWert
Winegardner, Mrs. Louise	Hardin
Williams, Flossie	Hardin
West, Lydia	Mercer
Williams, Helen R.	Hardin
Woods, Sigrid	Hardin
Wilmouth, Lottie	Marion
Williams, Elsie	Hardin
Wolfe, Alice	Hardin
Wittmer, Nola	Fayette
White, Zula	Wyandot
Wright, Florence	Tuscarawas
Walker, Gretchen	Pima, Ariz.
Walls, Wilda	Ross
Welty, Agnes	Hardin
Windle, Lucille	Scioto
Wiley, Edna	Scioto
White, Bertha	Scioto
Wolfe, Ruth M.	Allen
Winegardner, Arthur	Allen
Wintermute, Harold	Centerburg
Weidenroth, Helen	Henry
Wilson, Myrtle June	Hardin
Wright, Lucille	Allen
West, Lydia Clarence	Mercer
Windle, Lillian	Scioto
White, Edna May	Scioto
Wilson, Emal Pauline	Mercer
Walsh, Katherine	Scioto
Woolam, Ilo	Hardin
Young, Ernest Dee	Mercer
Young Carl Edgar	Darke
Yentzer, Ethel	Wyandot
Yeagley, Ernie	Hancock
Yeitter, Margaret	Crawford
Young, Vermont	Mercer
Yeazle, Evelyn	Champaign
Young, Mrs. F. H.	Union
Zohler, Christian R.	Logan

ENGINEERING

Augsberger, Clyde	Allen
Allen, Robert	Auglaize
Aldrey, John Lewis	Venezuela
Abbot, L. Emerson	Hamilton
Alba, Arturo	Phillipine Ilds.
Allinger, Neil	Allen
Ackerman, Geo. D.	Allen
Allen, Robert D.	Lorain
Alden, Chas. D.	Washington
Aranjo, R. G.	Rio de Janeiro, Brazil
Blackburn, Geo. B.	Bedford, Pa.
Banks, Alfred W.	Kings, N. Y.
Behner, Raymond A.	Marion
Brown, Rex B.	Mohave, Ariz.
Barnhiser, Waldo C.	Preble
Brockerman, Herman	Logan
Blose, Howard S.	Mercer

Boltz, Kermit----------Auglaize
Beer, Ertman----------Auglaize
Bayman, Guy ----------Marion
Bastos, Manuel----------Rio de Janeiro, Brazil
Boyer, Huber ----------Shelby
Bauer, Walter----------Butler, Pa.
Bird, E. L.----------Hardin
Busick, H. G.----------Paulding
Breesman, W. ----------Mahon
Balyard, Russell----------VanWert
Buchele, E. E.----------Hardin
Berta, Anthony----------Allegheny, Pa.
Bochinski, Felix A.----------Wayne, Mich.
Beyer, Forest----------Perry
Brown, Russell A.----------Summit
Buell, Harold F.----------Washington
Broadhurst, Chas. T.----------Passaic, N. J.
Booker, Ralph, W.----------Franklin, Mass.
Bauman, Edw. W.----------Lorain
Barber, John----------Logan
Coene, Harry C.----------Beaver, Pa.
Curdes, Reinland H.----------Henry
Cobb, Donald F.----------Summit
Crooks, Harlow----------Portage
Carhart, Clarence M.----------Berkshire, Mass.
Cuellar, Arthur----------LePaz, Bolivia
Custer, Robert----------Tuscarawas
Cummings, Lloyd W.----------Onondago, N. Y.
Cotterell, Thos. S.----------Monmouth, N. J.
Cohen, Phillip----------Orange, N. Y.
Coffman, O.----------Logan
Crausaz, Robert----------L'Abergemerst Switzerland
Clark, Bernard----------Marion
Coppersmith, Wm. ----------Mercer
Cotner, Leroy----------Hardin
Carver, H. Emerson----------Hamden, Mass.
Conley, Jno. J.----------Erie, N. Y.
Churchill, Chas. H.----------Allen
Cone, James H.----------Middlesex, Conn.
Cook, Fred W.----------Aiken, S. C.
Chambers, Floyd----------Seneca
Cato, Willard C.----------Chatauqua, N. Y.
Chickering, Sidney K.----------Jefferson, N. Y.
Clevenger, Alfred ----------Allen
Cookingham, Melvin D.----------Mecosta, Mich.
Ducette, Francis R.----------Niagara Falls, N. Y.
Decker, Blair----------Cambria, Pa.
Dense, Lyman O.----------Middlesex, Conn.
Duff, Raymond----------Stark
Duff, Russell M.----------Stark
Darnell, R. J.----------Ada
Detlor, Chas. C.----------Monroe
Day, Clarence----------Allen
Duran, A. C.----------Hardin
Essig, Webster B.----------Stark
Ewing, Edwin D.----------Hancock
Edie, Clay P.----------Hancock
Edwards, Charles P.----------Jefferson
Erdman, Edw. A.----------Eauclaire, Wis.
Ely, Harry----------Summit
Edwards, Geo. Nelson----------Oneida, N. Y.
Ellaby, Chas. H.----------Jefferson, Ky.
Everett, Joyce O.----------Allen
Eley, Ray L.----------Hardin
Easterman, Harold G.----------Putnam
Eliasson, Elon H.----------Philadelphia, Pa.
Enrico, Jacinto A.----------Phillipines
Foeller, Sergent----------Wayne, Mich.
Fonseca, Pedro----------Brazil
Farstad, Rolfe----------Lycoming, Pa.
Fugate, Chas. B.----------Letcher, Ky.
Frank, Henry----------Kings, N. Y.
Ferris, Thurston, L----------Livingston, N. Y.
Ferris, Walter----------Livingston, N. Y.
Fueller, Sergeant----------Wayne, Mich.
Foley, W. R.----------Beaver, Pa.
Florida, H. G.----------Hardin
Francis, Frederick O.----------Erie, N. Y.
Fulmer, Ward----------Stark
Frederick, Adam----------W. Mooreland, Pa.
Fesslen, Maurice D.----------Shelby, Ind.

Farnsworth, Hugh D.----Trumbull
Ferrandiz, F. B.------Phillipines
Gehr, Harvey W.---------Franklin
Green, Gilbert-----------Portage
Gehrhart, Clayton ------Crawford
Gatchel, Omar----------Wyandot
Gorrell, E. M.-------------Allen
Gilpen, O. M.-------------Adams
Grandey, Jos. A.-----Lawrence, Pa.
Gipson, Claude------Coleman, Tex.
Goldsmith, Percy R.--Beaver, Pa.
Groves, Robert----Monroe, N. Y.
Gary, Harold----------Ashtabula
Galvez, Pelagio--------Phillipines
Goldstone, Ralph R.------Fayette
Grinnell, Russell R.-Macomb, Mich.
Ganoe, C. M.------------Mercer
Hauser, Chas. A.-----Essex, N. Y.
Hall, Geo. W.-----------Portage
Hipple, J. Watson---------Perry
Hazelton, Spencer--Ingham, Mich.
Hawk, Russell-------------Allen
Haney, H. L.------------Hardin
Harmon, J. H.-----------Hardin
Harmon, Wm.-------Kings, N. Y.
Hardgrove, Geo.-----------Wayne
Hall, Dwight B.-----------Butler
Hersh, T. R.------------Putnam
Hart, Wilbur M.----------Summit
Holman, Carl V.----------Hardin
Henny, L. R.-------------Wood
Hunsicher, Ward----------Wayne
Harvey, Roy E.----------Hardin
Hefner, Elzie J.-----------Allen
Heil Ralph--------------Hancock
Hilton, L. S.-----------Hampden
Harper, Donald---------Auglaize
Homan, A. J.------Sullivan, N. Y.
Hill, D. W.--------------Lucas
Haygood, Albert C.-----Livingstone
Hartrauft, Ezra--------Mont. Pa.
Iguana, Otto--------Brazil, S. A.
Jones, Orton H.-----------Wood
Johnson, Phillip H.-------------------------Middlesex, Conn.
Jones, Arlie--------------Mercer
Jones, Clarence H.---------Huron
Jameson, Merritt ----------Wood
Johns, Ernest V.---------Summit
Jampol, Marcos------Kings, N. Y.
Kuszmaul, E. A.-----------Summit
Kierman, John -----------Greene
Krichbaum, Waldo ---------Stark
Kair, William E.--Berkshire, Mass.
Kowaless, Hubert--Alleghany, Pa.
Kuhns, Stanley-----Jefferson, Pa.
Kagwan, Juan M.-------Phillipines
Karalus, Alfred --------Cuyahoga
Knaebel, Lot--Northumberland, Pa.
Knapp, Irving Walter--Columbiana
Kiele, Lindly A.-------Columbiana
Lorini, Hector------Bolivia, S. A.
Lesinkowski, Francis-Wayne, Mich.
Lewis, Thomas-----------Harrison
Leonard, E. N.-----Cabell. W. Va.
Laughlin, Thos.---Stratford, N. H.
Leech, C. H.-----------Butler, Pa.
Le Vine, Aaron----Orange, N. Y.
Loehr, C. E.---------------Logan
Litzenberg, L. C.-----------Knox
Leppan, Jno. Wm.-----South Africa
Lambdin, Ralph---------Ashtabula
Lynde, Maurice-----Oceola, Mich.
Lieske, Gustave L.---------Ottawa
Liano, Manuel---------Porto Rico
Maurey, Homer-------------Stark
Magid, Bessie----New York, N. Y.
Mason, H. P.---------Washington
Mumma, Douley H.------------------------------Allegheny, Pa.
Moreland, Lawrence S.---------------------Washington, D. C.
Martin, Donald---------------------------Northumberland, Pa.
McNary, Lee W.-----Allegheny, Pa.
Miller, Ralph S.---------Cuyahoga
Mayer, Albert L.-------York, Pa.
McCombs, A. R.-----Allegheny, Pa.
McKee, Lloyd F.---------Jefferson
Mazzulla, Michael--Orange, N. Y.
Miller, B. S.------Mercer, N. Y.
Marx, Lester M.-----Monroe, N. Y.
Mentor, Harley H.----------Wood
Moas, Manuel --------------Cuba
Meredith, Geo T.--Armstrong, Pa.
Martin, Mario S.-----------Brazil
Miller, Walter Knox------Athens
Navarro, Mariano C.--Philippines

Nogt, Kenneth Lawrence---Hardin
Nogueira, Manuel----------Brazil
Nelson, David A.--Hampden, Mass.
Newmeyer, Jas. H.-----------------------------Allegheny, Pa.
Nichols, Robert H.------Richland
Ogan, Emil R.----------Guernsey
Osborn, Robert--------Van Wert
Ottoni, Augusto------------Brazil
Pernambuco, Laurode ------Brazil
Pugh, Morton G.-----------Darke
Page, Warder---------Champaign
Porter, Earl E.----------Trumbull
Prudent, Henry---------Clermont
Patton, Walter H.----------Huron
Peterman, H. A.----Crawford, Pa.
Pierce, Allen E.----Delaware N. Y.
Palmer, Eugene-------Washington
Parker, Chas. W.-------Allegheny
Perkins, Paul--------Potter, Pa.
Prudent, Geo-----------Clermont
Rickey, Floyd E.----Orleans, La.
Reyes, Jose L.---------Philippines
Reinheimer, John -----------Erie
Robb, Marson S.-------------Erie
Rohe, Donald J.-------------Allen
Rivera, Alejandro -----Philippines
Russell, J. Lowell--------Paulding
Roberts, Richard-------------Allen
Ribeiro, M. G.-------------Brazil
Renkenberger, Bertram-------------------------Columbiana
Rumel, David E.-----------Darke
Ronk, H. D.---------Ulster, N. Y.
Ringer, S. A.---------------Stark
Robertson, Howard N.-----Carroll
Rowand, A. M.-------------Clarke
Rice, Paul-----------Tuscarawas
Robinson, Oliver H.---------Lucas
Randle, H. B.--Westmoreland, Pa.
Robinson, Homer H.------Hancock
Rogers, Donald K.-----------Blair
Rocha, Paulo--------------Brazil
Ray, Clarence-------Tipton, Ind.
Robinson, Bernard C.---Cuyahoga
Reyes, Liolo R.--------Philippines
Schoonover, Merritt-------Hardin
Swart, Geo. Albert---------------------------Bergen, Norway
Shull, Chas. Eugene--Augusta, Va.
Schutt, Raymond L.------Defiance
Snyder, Cloyce--------Van Wert
Shoup, Howard----Armstrong, Pa.
Slater, Galen-------------Wayne
Salt, Edw.-----------Columbiana
Seitz, Sherman-----------Clinton
Savage, Phillip-----------Clinton
Stevely, Loy E.----------Auglaize
Schafer, Russell E.------Belmont
Shavely, Lorne O.----------Miami
Strong, Carroll R.----------Lorain
Shepard, Howard--Channing, N. Y.
Seipel, Ralph H.----Lawrence, Pa.
Sickles, Lloyd---Outagamica, Wis.
Senior, Arthur H.------Venezuela
Siler, Melvin L.---------Sandusky
Sellers, Frank W.----Fayette, Pa.
Small, Ray F.-------Cambria, Pa.
Sherman, Donald--------Hancock
Stoker, Elmer-----------Auglaize
Stoup, E. L.---------------Allen
Shafer, Noah------------Paulding
Skinner, Ransome P.-------------------------Chatauqua, N. Y.
Spitler, Stephen V.------Putnam
Slonaker, J. A. -Westmoreland, Pa.
Samuels, C. W.----Clearfield, Pa.
Snedden, Tillman R.--Beaver, Pa.
Stamer, A. D.-------------Holmes
Starner, Edwin E.---------Holmes
Snider, E. E.------Gratiot, Mich.
Seigel, Harry------Orange, N. Y.
Schaaf, Ray-------------Hancock
Steen, Paul P.-------Mercer, N. J.
Spilka, Alfred C.-----Cuyahoga, O
Sterling, C.---------------Hardin
Smythe, Glenn M.--------Wyandot
Starner, Paul------Venango, Pa.
Shultz, Wm. H.--Houghton, Mich.
Shires, Luke B.------Sullivan, Pa.
St. Johns, Theo.-------------------------St. Lawrence, N. Y.
Tourtellott, Arthur------Erie, Pa.
Transeux, Frederick--Clinton, Pa.
Turner, Lawrence--------Belmont
Tabares, Jose D.------------Cuba
Thompson, J. K.------Beaver, Pa.
Trumble, L. A.---------Bay, Mich.

Taylor, O. C.----------Hancock
Thompson, Wm. L.----------Erie
Thobaben, Weston H.-----Cuyahoga
Tejada, Chas. ----------Bolivia
Ulrey, J. W.----------Knox
Uriaste, Bernardo----------Cuba
Van Haute, Paul A.----------Brazil
Vererka, Frank J.----------Long Island, N. Y.
Vanderly, A.----------Brazil
Welch, Jos, Freeman----------Knox
Winokur, Sol----------Cook, Ill.
Wood, Edwin F.----------Tioga, Pa.
Wood, Malcolm R.----------Summit
Wolfe, Clyde L.----------Perry
Wechter, Willard E.----Erie, N. Y.
Wharton, R. S.----------Hardin
Wells, John E.----------Hardin
Weil, Russell ----------Belmont
Witzler, Howard----------Wood
Warmbrun, Max----------Cook, Ill.
Walker, Clarence----------Greene
Zusgsda, Geo.----------Cuyahoga

LAW

Beam, Lydon H.----------Richland
Banknecht, John E.----------Belmont
Behrens, Ferd ----------Henry
Bogdan, Matthew----------Mahoning
Burgess, Fred----------Cuyahoga
Bustard, J. H.----------Cuyahoga
Cook, Floyd D.----------Wayne
Cochran, Robert ----------Knox
Colley, Frank M.----------Highland
Costine, John E.---Belmont, W. Va.
Crist, Wm. E.----------Defiance
Dalton, Neal----------Montgomery
Davies, E. N.----------Erie
De Leone, Wm. L.----------Portage
Dague, Roy C.----------Wayne
Fairall, L. Leroy----------Muskingum
Fleming, Frank ----------Marion
Hoopingamer, Raymond R.----------Tuscarawas
Hyde, Edw.----------Trumbull
Harper, Fowler----------Hardin
Isham, Donovan----------Hardin
Jenkins, Benj. F.----------Trumbull
Krawetz, Leo----------Fairfield
Machetang, Wilko G.----------Hardin
Moyer, Clarence ----------Erie
McVicker, Dewey B.----------Wayne
McElroy, Justin----------Hardin
Metcalf, V. E.----------Washington
Osmun, John R.----------Marion
Orthwein, W. E.----------Crawford
Orthwein, C. F.----------Crawford
Pickering, J. Lee----------Belmont
Rodgers, A. M.----------Hardin
Roof, Roy W.----------Hardin
Ryder, Patrick J.----------Blair, Pa.
Rock, Thos.----------Jefferson, O.
Randall, Carl----------Erie
Sager, Eldon H.----------Franklin
Schlegel, Paul L.----------Summit
Shellenberger, Harold L.----Miami
Sanders, Laurence ----------Shelby
Sawyer, James B.----------Pickaway
Smith, Earl O.----------Pickaway
Suhr, Theo. H.----------Erie
Shields, Fred L.----------Clermont
Smith, Geo. H.----------Greene
Seiber, Jno.----------Allen
Thomas, David----------Ross
Vinocour, Louis----------Cuyahoga
Winegardner, Reed M.----------Allen
Wiseman, Arden W.----------Crawford
Witlen, B. G.----------Tyler, W. Va.

PHARMACY

Ashbaum, Robert M.----------Allen
Adelstine, Nathan S.-----Cuyahoga
Bossler, J. P.----------Crawford
Blue, Merle E.----------Wyandot
Beck, Francis J.----------Henry
Baldwin, Emmett H.----------Allen
Clark, Orda A.---Randolph, W. Va.
Creedmore, Arthur, F.----Cuyahoga
Dunathan, Harry V.----------Auglaize
Davies, Harry E.---Cabell, W. Va.

Davis, Argyle	Van Wert
Davison, Howard	Mahoning
Fenton, Chas. R.	Portage
Garber, Guy P.	Paulding
Hill, Bernard W.	Hampshire, W. Va.
Hartford, Calvin	Columbiana
Hauenstein, H. R.	Wayne
Hoffman, Elmer H.	Tuscarawas
Houser, Chas. R.	Hardin
Harris, Richard E.	Erie
Hooker, Ora L.	Lawrence, Pa.
Hollander, David S.	Hardin
Hook, Mary	Morgan
Kirk, Morris	Lorain
Kowalski, Thos.	Berkshire, Mass.
McCartney, R. W.	Hardin
Main, Eli	Hardin
Malakowski, John	Cook, Ill.
Nelson, Harold J.	Summit
Osmun, Ralph	Marion
Perez, Juan	Cuba
Poultson, Harry D.	Summit
Robinson, Leonard	Washington
Scott, Carroll E.	Summit
Stockwell, Lee M.	Auglaize
Shepard, D. B.	Crawford
Smith, Wilbert M.	Summit
Summers, Paul F.	Summit
Sullinger, W. R.	Fulton
Tremaine, C. F.	Huron
Woodworth, Fred	Auglaize
Welling, Harold J.	Summit
Winters, Erma L.	Allen, Ind.

COMMERCE

Ater, Mrs. May	Hardin
Brahman, Victor	Hillsdale, Mich.
Burgos, Albert	Porto Rico
Baransy, Homer J.	Hardin
Bosse, Christian	Hancock
Blowers, Edmund A.	Erie, N. Y.
Beuchert, Freida	Hardin
Baldwin, Alvaretta	Hardin
Babcock, Avonell	Hardin
Boda, Olive Elsie	Hardin
Carey, Paul	Hardin
Cunningham, Isabel	Hardin
De Wesse, Hugh	Miami
Gardner, Burke	McLean, Ill.
Hunter, Wm. D.	Erie, N. Y.
Hansey, Wm. A.	Erie, N. Y.
Hartley, Ira L.	Noble
Houser, Marie	Hardin
Horn, Erma	Hardin
Jones, Ben	Hardin
Kates, Bernard	Monroe, N. Y.
Light, Taylor B.	Richland
Long, Tsu Hsing	China
Light, Chandis	Richland
Ludwig, Fern	Hardin
Mealy, Minnie	Harrison, W. Va.
Mertz, Dorothy	Hardin
McIntyre, N. K.	Fayette, Pa.
Main, Eli	Hardin
Montville, Hurst	Hardin
Main, Franklin B.	Wyandot
Noaker, Harold M.	Stark
Ogan, Harry O.	Hardin
Palmer, Lois	Marion
Parshall, Jeanette	Hardin
Riddlebarger, Ralph E.	Scioto
Rybak, Bernice J.	Cuyahoga
Riddlebarger, Mrs. Grace	Hardin
Reedy, Hildred	Hardin
Russell, Georgia	Hardin
Smith, Mervin	Hardin
Storer, Warren	Hardin
Spellman, R. D.	Hardin
Schlup, Mrs. Myrtle	Hardin
Spellman, Von	Hardin
Stottle, Leslie	Monroe, N. Y.
Silver, Donald C.	Wayne
Sterner, Garland	Wyandot
Stage, Mrs. W. A.	Hardin
Thomas, Anna May	Mahoning
Young, Rachel	Merrick, Nebr.

MUSIC

Allen, Robert	Auglaize
Arbuthnot, Ruth	Allen
Abt, Pauline	Ada
Allen, Alice	Hardin
Alspach, Wanda	Wyandot
Breesman, W.	Mahon
Baransy, Marvin	Hardin
Barber, Jno.	Logan
Bower, Isabelle	Marion
Barton, Helen	Madison
Bresler, Gladys	Hardin
Brokate, Ople	Ottawa
Barnes, Vera	Belmont
Baker, Mildred	Marion
Burgeson, Agnes	Mahoning
Buchler, Edna	Hardin
Baker, Mamie	Hardin
Banfield, Ruth	Hardin
Baird, S. Elma	Washington, Pa.
Baransy, Eula	Hardin
Brame, Clona	Hardin
Bowers, Lucille	Hardin
Baransy, Florine	Hardin
Bamberg, Elizabeth	Hardin
Blatt, Carrie	Ottawa
Blatt, Alice	Ottawa
Betz, Madge	Hardin
Balmer, Mrs. J. E.	Hardin
Baker, Margaret	Hardin
Berger, Lewis	Hardin
Baughman, Edwin A.	Morrow
Banfill, Beatrice	Hardin
Cooney, Helen	Hardin
Carney, Hazel	Hardin
Conner, Helen	Hardin
Connor, Edith	Hardin
Cole, Mildred	Hardin
Church, Austin	Hardin
Cole, Mary B.	Hancock
Cole, Katherine	Allen
Church, Ruth	Hardin
Clark, Leona	Hardin
Clark, Lovana	Hardin
Campbell, Mary	Hardin
Cramer, Elizabeth	Darke
Cretors, Martha	Hardin
Cady, Anna	Washington
Davis, Nina	Hancock
Detrick, Marjorie	Hardin
Dearth, Ladonna	Hardin
Detrick, Dorothy	Hardin
Davenport, Ruth	Hardin
Davenport, Helen	Hardin
De Witt, Ruth	Hardin
Danner, Geneva	Hardin
Danner, Lucille	Hardin
Erickson, Henry	Alleghany, Pa.
Ely, Harry	Summit
Earl, Virginia	Hardin
Estill, Lydia Louise	Hardin
Elder, Thora	Hardin
Ewing, Martha	Hardin
Fausnaugh, Ivy Myrtle	Amanda
Friedly, Dorothy	Hardin
Foley, W. R.	Beaver, Pa.
Friedly, Mildred	Hardin
Fry, Margaret	Hardin
Fisher, Beatrice	Mercer
Ford, Clara W.	Hardin
Greer, George	Hardin
Gallant, Ruth	Hardin
Gossard, Lucille	Hardin
Gesaman, Alice	Hardin
Gigandet, Mary	Shelby
Grant, Sadie Viola	Allen
Gamble, Francis	Van Wert
Holman, Helen	Hardin
Hesser, Eva C.	Hardin
Huffman, Janet	Hardin
Hall, Dwight B.	Butler
Hesser, Don	Hardin
High, Allen	Hardin
Hayden, Lucy	Hardin
Hover, Lois	Allen
Hesser, Eva C.	Hardin
Hood, Mrs. Estella	Hardin
Herr, Alice	Hardin
Henderson, Helen	Hardin
Hunsicker, Opal	Hardin
Houser, Treva	Hardin
Ingledue, Grace	Allen
James, Ilabelle	Hardin
Johns, Frank	Crawford
Jennings, Ned	Hardin

Judkins, Leland	Hardin
Johnson, Rowena	Hardin
Judkins, Lois	Hardin
Krebs, Tilla	Hardin
Kieswalter, Cleo	Allen
Kennedy, Lillian	Hardin
Klingler, Donna	Hardin
Kelly, Mrs. M. J.	Hardin
Loxley, Ralph	Hardin
Lowman, Mildred	Hardin
Long, Jesse	Hardin
Long, Russell	Hardin
Landon, Kenard	Hardin
Lantz, Beatrice	Hardin
Landon, Alice	Hardin
Landon, Le Irma	Hardin
Mason, H. P.	Washington
Miller, Hubert	Hardin
McGuffey, Tom	Hardin
Mushaw, Francis	Hardin
Mertz, Robert	Hardin
Mertz, Forest	Hardin
Mayer, Walter	Allen
Moore, Mabel	Mercer
Marty, Delphine	Hardin
Merhal, Catherine	Putnam
McElroy, Madeline	Hardin
McGuffey, Esther	Hardin
McGuffey, Grace	Hardin
Miller, Dorothy	Hardin
McCurdy, Flora	Hardin
McCurdy, Tiola	Hardin
Martin, May	Hardin
McElroy, Mozelle	Hardin
McCrea, Hope	Fayette
May, Nevo	Mercer
McCrea, Ruth	Hardin
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INDEX

Accounting 90
Administration, Committee 13
Admission,
  Arts and Sciences 25
  Education 51
  Engineering 67
  Law 79
  Pharmacy 93
Advanced standing 27
  Description courses 34, 55, 63, 81
Aid to Students 18
Algebra, courses in 44, 64
American History 42
Astronomy 44
Athletics 21
  Department of 121
Band 20, 100
Biblical Literature 34
Biology 35
Board and Rooms, cost of 18
Board of Trustees 7
Botany 36, 66
Buildings 14
Business courses 88
Cadet Uniform, expense of 123
Calculus 44
Calendar 2
Chemical Engineering 75
Chemistry, courses in 37
Christian Associtions 20
Choral Society 109
Civil Engineering 69
College and Schools
  Commerce 85
  Education 51
  Engineering 67
  Expression 117
  Law 79
  Arts and Sciences 25
  Music 103
  Preparatory School 61
  Pharmacy 93
Commerce, College of 85
Committees of
  Faculty 13
  Trustees 7
Curricula
  Science and Arts 25, 33
  Education 53, 54
  Preparatory 62, 63
  Engineering 70, 76
  Law 81, 82
  Pharmacy 96, 98
  Commerce 88, 90
  Music 104, 107
  Expression 118
Debating Clubs 20
Degrees, see above each
    curriculum.
Directions, General 4
Discipline 21
Drafting, Structural 75
Drawing 57
Economics 37
Education, College of 51
Electives 50
Expression 117
Engineering, College of 61
Employment 19
Employment Bureau 59
Electrical Engineering 71
English 39
Entrance Committee 13
Entrance Requirements,
  Liberal Arts 27
Expenses 23
Evidences of Christianity 35
Faculty 9
Farm, University 18
Fees,
  Laboratory 23
  Special 24
  Graduation 23
    See several colleges
French 45, 66
Geology 40
Geometry 44, 64
German 45, 66
Grading, Method of 32

Graduates, Roll of 109
Graduation, Liberal Arts 130
Graduation Fee 24
  See several colleges.
Greek 41
Gymnasium 15
Harmony 106
Hebrew 41
Historical Sketch 14
History, courses in 41, 65
Italian 46
Laboratories 15
  Pharmacy 93
Laboratory, Fees 23
Latin, Courses in 43, 66
Law, College of 79
Law, Commercial 91
Lettering 92
Library 17
Library Committee 13
Liberal Arts, College of 25
Literary Societies 20
Literature, courses in 39
Loan Fund 18
Logic 46
Location 5
Mathematics 44, 64
Matriculation 23
Mechanical Engineering 72
Military Department 121
Military Drill 21
Modern Languages 45, 66
Moot Court 82
Moral and Religious Culture 22
Municipal Engineering 74
Museums 16
Music, College of 103
  Courses in 104
  Regulations 111
Music, Public School 58
Musical Organizations 109
Opening, Time of 2
Orchestras 19, 109
Organization 6
Penmanship 92
Pharmacy, College of 93
  Courses in 96, 102
Philosophy 46
Physical Training 21
Physical Training for
  Women 128
Physics 47, 65
Physiology 65
Physical Geography 65
Political Science 47
Practice Teaching 58
Preparatory School 62
  Courses in 62, 63
Professional Training 52
Psychology 48
  Educational 55
Prizes 19
Refunding 24
Rapid Calculation 91
Registration 4
Rhetoric 39, 63
Rooms 18
Rooming Houses for Women 5
Religious Culture 22
Scholarships 19
  Music 111
Short Courses Commercial
  Business 88
  Stenography 88
Sociology 49
Spanish 46
Spelling 91
Stenography 91
Student Aid 18
Student Activities 20
Students, List of 136
Student Publication 21
Structural Drafting 75
Summer School 59
Science, Course in 30
Tuition 23
Trigonometry 44
Trustees, Board of 7
Typewriting 91
University
  Band 20
  Buildings 14
  Committees 13
  History of 14
  Location 5
  Organization 6

  Farm ---------------------- 18
Vacation, Summer ----------- 2
Voice Culture ---------------104
Work of Students------------- 19
Women, Rooms for----------- 5
Women, Physical Training----128
Y. M. C. A.------------------ 20
Y. W. C. A.------------------ 20
Zoology ------------------- 35

DEFIANCE PTG. & ENG. CO. DEFIANCE, O.

APPLICATION FOR ADMISSION

The undersigned hereby applies for admission to the Ohio Northern University, and submits the following information, for the accuracy of which he vouches:

Admission is desired to the
(Check Department Desired)

- Arts and Sciences
- Education
- Engineering
- Law
- Commerce
- Pharmacy
- Music
- Agriculture
- Expression

Date of Application______________________

Name in full____

Date of birth______________________and place_______________

Home or permanent address: Street______________________

City and State______________________________________

Name of Parent or guardian (and address, if different from yours) ____

____

High School or Academic course attended (name of school)

____

Number of years attended________Year graduated__________

If applicant has ever been in attendance at any college, university, or professional school, its name and location should be stated, with dates of attendance_____________________

No obligation is incurred by filing this application, which should be sent (preferably prior to September 1) to the

REGISTRAR, OHIO NORTHERN UNIVERSITY,
ADA, OHIO.

The candidate's admission is dependent on the presentation and approval by the Committee on Admissions of the Statement Required for Admission, filled out by the school authorities and certified to by the principal of the secondary institution last attended. Until it is received matriculation is only provisional.

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20/21

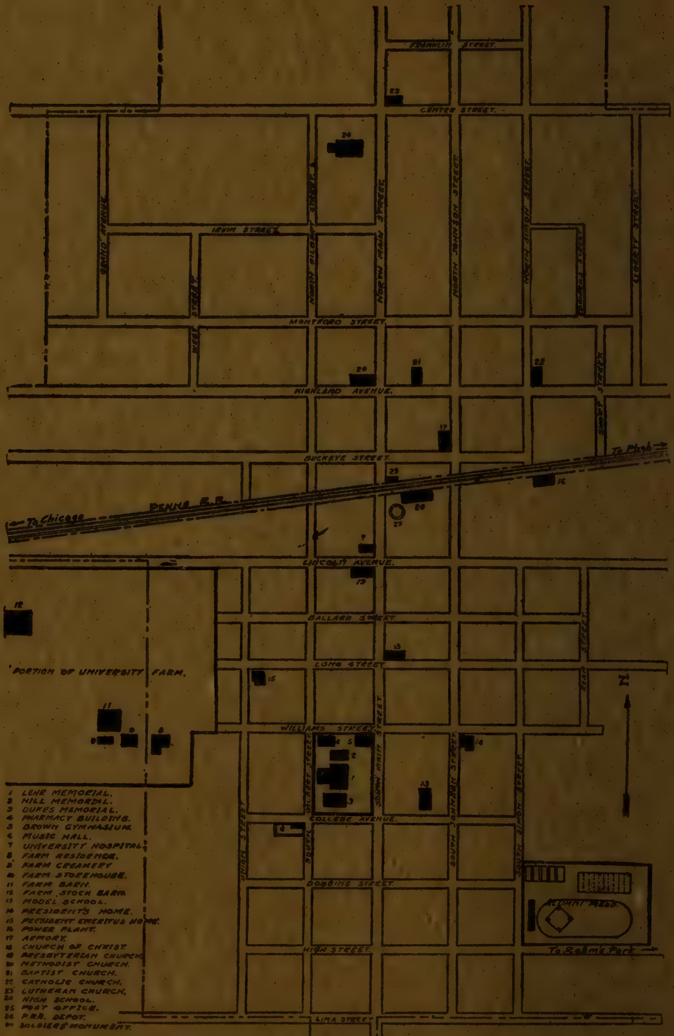
OHIO NORTHERN UNIVERSITY

CATALOGUE

JUNE 1921

Announcement for 1921-22

UNIVERSITY BULLETIN. Published in June, July, September, November, January, April and May by the Ohio Northern University, Ada, Ohio. Entered as second-class matter July 3rd, 1917, at the postoffice at Ada, Ohio, under the Act of Congress of July 16, 1894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SOUTH SIMON STREET
UNION STREET
PENNA R.R.
To Chicago
To Phila
PORTION OF UNIVERSITY FARM.
ALUMNI FIELD
To Rahm's Park
N.
1 LEHR MEMORIAL.
2 HILL MEMORIAL.
3 DUKES MEMORIAL.
4 PHARMACY BUILDING.
5 BROWN GYMNASIUM.
6 MUSIC HALL.
7 UNIVERSITY HOSPITAL.
8 FARM RESIDENCE.
9 FARM CREAMERY
10 FARM STOREHOUSE.
11 FARM BARN.
12 FARM STOCK BARN.
13 MODEL SCHOOL.
14 PRESIDENT'S HOME.
15 PRESIDENT EMERITUS HOME.
16 POWER PLANT.
17 ARMORY.
18 CHURCH OF CHRIST.
19 PRESBYTERIAN CHURCH.
20 METHODIST CHURCH.
21 BAPTIST CHURCH.
22 CATHOLIC CHURCH.
23 LUTHERAN CHURCH.
24 HIGH SCHOOL.
25 POST OFFICE.
26 P.R.R. DEPOT.
27 SOLDIERS' MONUMENT.

Ada and the O. N. U.

OHIO NORTHERN UNIVERSITY

Annual Catalog

June 1921

CALENDAR

1921

FALL QUARTER

September 5, Monday----------------Entrance Examinations
September 6, Tuesday ----------------------Registration Day
September 7, Wednesday-----------(8:30 A. M.) Classes begin
September 12, Monday------------College of Pharmacy opens
November 14, to November 19------------Preregistration week
November 22, Tuesday---------(5:00 P. M.) Fall Quarter Ends

WINTER QUARTER

November 28, Monday-Entrance Examinations and Registration
November 29, Tuesday------------(8.30 A. M.) Classes begin
December 16, Friday------(5:00 P. M.) Christmas vacation for Pharmacy students only.
December 23, Friday--(11:30 A. M.) Christmas vacation begins

1922

January 3, Tuesday------(8:30 A. M.) Christmas vacation ends
February 13, to February 17------------Preregistration week
February 24, Friday,--------------------Winter Quarter Ends

SPRING QUARTER

February 27, Monday--Entrance Examination and Registration
February 28, Tuesday--------------(8:30 A. M.) Classes begin
May 8, to May 12----------------------Preregistration Week
May 12, Friday---------------------------Junior-Senior Day
May 21, Sunday ---------------------------Baccalaureate Day
May 22, Monday------------------------------------Class Day
May 23, Tuesday---------------------------------Alumni Day
May 23, Tuesday------(9:30 A. M.) Annual Meeting of Board of Trustees.
May 24, Wednesday---------------------Commencement Day

SUMMER QUARTER

May 29, Monday-----Entrance Examinations and Registration
May 30, Tuesday------------------(8:30 A. M.) Classes begin
July 7, Friday--------------First Special Summer Term Ends
July 10, Monday---------Second Special Summer Term Begins
July 31, to August 5-------------------Preregistration Week
August 12, Saturday------Summer Quarter and Second Special Summer Term Ends.

FALL QUARTER

September 11, Monday----------------Entrance Examinations
September 12, Tuesday ---------------------Registration Day
September 13, Wednesday----------(8:30 A. M.) Classes begin

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A.B., Ohio Wesleyan University, 1887; Ph.D., 1898; D.D. 1906.

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B.S., Ohio Normal University, 1889; M.S., 1892; M. Lit., 1902; Ped.D., Ohio Northern, 1912.

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C.E., Ohio Northern 1904; Archt., 1906.
Graduate student, LaFayette College, 1904-05; Dean of College of Engineering 1905-1917; Eng. D. Oglethorpe University, 1921.

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A.B., Ohio Wesleyan University, 1877.

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B.S., Geneva College, 1894.

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A. B., Ohio Northern, 1909; A.M., Yale University, 1912; Graduate student, University of Wisconsin, 1920.

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Dean of College of Engineering. (1921—)
B.S. in E.E., Ohio Northern, 1915; B.S. in M.E., Ohio Northern, 1916; E.E., Ohio Northern, 1917; M.E., Ohio Northern, 1918.

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Professor of Law. (1921—)
Dean of College of Law. (1921—)
A.B., Ohio Wesleyan University, 1888.

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Ph.G., Ohio Northern, 1910; Ph.C., 1911.

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A.B., Ohio Northern, 1910; B.S., University of Chicago, 1914.

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Graduate of University of Michigan, School of Music, 1905; Assistant in Voice, 1905-1907; Pupil Sig. De Macchi and Harriet Ware, New York City, 1907-1909.

EMMETT ELIJAH LONG, B.C.S. 621 S. Johnson
Book-keeping and Penmanship. (1907—)
Director of School of Commerce, 1918—).
Student at Zanerian Art College, 1909. B.C.S., Ohio Northern, 1911.

ANDREW SCOTT STAUFFER, B.S., B.S. in Agric. 610 S. Union
Librarian and Assistant Professor of Biology. (1920—)
B.S., Ohio Northern, 1915; B.S. in Agriculture, Ohio State University, 1918; Graduate Student University of Wisconsin, 1920.

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Professor of Religious Education and Philosophy, (1921—).
Director of School of Religion, (1921—).
A.B., Ohio Northern, 1903; LL.B., Ohio Northern, 1905; A.M., Harvard, 1908; Ph.D., Harvard, 1910.

MAE DEMING-McCOPPIN, M.O. 431 N. Gilbert
Professor of Expression, (1887-1901; 1907—).
Director School of Expression, 1887-1902; 1907-1912; 1917—).
B.O., Ohio Normal, 1887; M.O., Ohio Normal, 1888.

JAMES OTTO NEWTON, D.D.S. 705 S. Main
Professor of Physical Education, (1921—).
Director of School of Physical Education, (1921—)
D.D.S., Ohio State, 1904.

RICHARD HOLMES SCHOONOVER, AM., B.D., 115 S. Johnson
Professor of Greek and Church History. (1901—)
A.B., Northwestern Ohio Normal School, 1884; A.M., 1887; A.B., Ohio Wesleyan, 1888; B.D., Drew Theological Seminary, 1889.

MAJOR A. CLIFFE DEMING, A.M., B.O. 431 N. Gilbert
Professor of Public Speaking, (1901-1902;1907-1917; 1920—).
Director of School of Expression, (1912-1917).
B.O., Ohio Normal, 1899; A.B., Ohio Normal, 1900; Graduate Emerson School of Oratory, 1901.

LENIX CRAIG SLEESMAN, Ph.G., Ph.C., 702 S. Gilbert
Professor of Chemistry. (1906—)
Ph.G., Ohio Northern, 1905; Ph.C., 1906.

CHILDE HAROLD FREEMAN, B.S. 317 W. University
Professor of Rhetoric and English Literature. (1910—).
B.S., Ohio Normal University, 1901.

CARRIE ADEL WILSON, B.E. 534 S. Johnson
Dean of Women.
Assisant Professor in Education. (1914—)
B.E., Ohio Northern, 1908.
B.E., Ohio Northern, 1908; Graduate Student, College of Education, Ohio State, 1912-1913.

WALTER DAVID NISWANDER, A.M. 310 E. Lincoln
Professor of History. (1917—)
B.Ph., B.Ped., Ohio Northern, 1914; M.A., Ohio State University, 1917.

WIGHTMAN S. BECKWITH, A.M. 718 S. Main
Professor of Mathematics. (1918—)
A.B., Emory College, 1909; A.M., Harvard, 1917.

JOHN WALLACE THOMPSON, B.S., LL.B. 927 S. Main
Professor of Law. (1919—)
B.S., Ohio Northern, 1906; LL.B., 1906.

ELLAHUE ANSILE HARPER, A.M., LL.B., 702 S. Main
Professor of Law. (1918—)
A.B., Ohio Normal University, 1890; B.L., Ohio Wesleyan, 1893; A.B., Ohio Wesleyan, 1898, LL.B., Ohio State, 1900.

WILFRED ELLSWORTH BINKLEY, B.S., A.B. 309 N. Johnson
Professor of Political Science and Economics. (1921—)
B.S., Ohio Northern, 1907; A.B., Antioch, 1910; Graduate student, Harvard, 1910-11.

MARTELLE ELLIOT-DAVIS, A.B., Ph.D.
Professor of Modern Languages. (1921—).
A.B., Ohio Wesleyan; Ph.D., University of Washington.

GUY HERBERT ELBIN 224 E. Lincoln
Professor of Civil Engineering. (1919—)
B.S. in C.E., Ohio Northern, 1916; C.E., Ohio Northern, 1920.

HARRY LEE HAMPSER, Ph.G. 316 S. Gilbert
Instructor in Pharmacognosy. (1919—).
Ph.G., Ohio Northern, 1918.

GEORGE ANDERSON, D.D. 306 S. Main
(On the Stambaugh Estate Foundation).
Assistant Professor of English, (1919—).
Welfare Director, (1919—).
A.B., Nottingham University, 1878; Graduate English Student, London University, 1880; D.D., Royal Naval Institute, 1917.

CLARENCE CLEVELAND CARPENTER, C.E. 820 S. Gilbert
Professor of Civil Engineering. (1920—)
B.S. in C.E., Ohio Northern, 1912; C.E., Cornell Univ. 1917.

WALTER GRAY, A.M. 620 S. Gilbert
Professor of Psychology and Sociology. (1920—)
B.S. in Ed., Ohio Northern, 1915; A.M., Ohio State University, 1918.

IVOR ST. CLAIR CAMPBELL, M.E., E.E. 301 E. Lehr
Professor of Mechanical Engineering. (1921—)
B.S. in M.E., Ohio Northern, 1916; B.S. in E.E., Ohio Northern, 1917; M.E., Ohio Northern, 1918; E.E., Ohio Northern, 1919.

JOHN THEODORE FAIRCHILD, Ph.M., C.E. 305 S. Main
Assistant Professor of Mathematics, (1921—).
A.B., Ohio Northern, 1895; Ph.M., Carnegie Institute, 1902; C.E., Ohio Northern, 1904; Graduate Student, University of Chicago, 1921.

JESSE RAYMOND HARROD, B.S. 213 E. University
Instructor in Chemistry, (1921—)
B.S., in Education, Ohio Northern, 1918; B.S., Ohio Northern, 1919; Graduate student Ohio State, Summer, 1921.

MARY MIRIAM BLAIN, Grad. in Ped. and Com. 417 Union
Instructor in Stenography and Typewriting. (1920—).
Graduate, Gregg School of Shorthand, 1920.

MARY CLYTICE PHILLIPS 714 S. Main
Instructor in Piano and Pipe Organ. (1917—)
Graduate in Piano, Ohio Northern, 1916; Graduate Student Chautauqua, New York, 1920.

DOROTHY JEAN AMES 534 N. Main
Instructor in Piano.
Graduate in Piano, Ohio Northern, 1919; Student of Rudolph Reuter; Graduate in Piano, Chicago Musical College, 1921.

ETHEL WARREN 724 S. Main
Assistant Instructor in Piano. (1919—)
Graduate in Piano, Ohio Northern, 1917; Graduate Student, Chicago Musical College, 1921.

CARRIE WILLIAMS BREWER 620 Union
Instructor in Violin. (1920—).
Conservatory of Music, Cincinnati, 1915.

SIG. MICHAEL MAZZULA, B.S. in Chem. E. 214 W. Ballard
Instructor in Wind Instruments, (1920—).
B.S. in Chem. E., Ohio Northern, 1921

GRACE NORMAN ROSSER, 219 N. Main
Assistant Professor of Expression, (1921—).
Graduate in Expression, Ohio Normal, 1891; Graduate Curry School of Expression, 1899; Post-Graduate Curry School of Expression, 1901.

CHARLES WESLEY BOLEN 231½ N. Main
Coach, Inter-Collegiate Sports, (1919—).
Ohio State, 1914-1917.

General Secretary Y. M. C. A.

MARY ELIZA THOMAS 424 S. Gilbert
Assistant Librarian.
B.S., Ohio Normal University, 1894.

FLO. L. CRONBAUGH, G. Sten. 310 E. University
Notary Public.
Stenographer and Office Secretary.
G. Sten. Ohio Northern, 1911.

ESTHER PATRICK, (Ohio State).
Instructor in Domestic Science.
(Summer Quarters, 1916—).

ARNOLD RAYMOND McCOMBS, B.S. in M.E.
Assistant in Mathematics.

WESTON HAST THOBABEN
Assistant in Drawing.

GLEN DOANE WINANS, B.S. in M.E.
Assistant in Mechanical Laboratory.

CHARLES E. HOLE
Assistant in Physical Laboratory in Chem. E.

ROBERT AMBROSE OSBORN, B.S.
Assistant in Chemical Laboratory.

EVERETT L. BIRD.
Assistant in Electrical Laboratory.

ALVA E. ROCKWELL, Ped. B.
Farm Superintendent.
Ped. B., Ohio Normal University, 1899.

FACULTY COMMITTEES

Administration: Dr. Smith, Dr. Davison, Dr. Smull, Professor Whitworth.

Artist-Lecture: Dr. Smull, Professors Killeen, Campbell, Fairchild, Davis.

Assignment and Supervision: The Deans and Directors, Registrar, Chairman.

Athletics: Dr. Smull, Professors Sleesman, Killeen, Long, Elbin, Niswander.

Entrance: The Deans and Directors, Professor Whitworth, Chairman.

Finance: Dr. Smith, Dr. Smull, Treasurer Whitworth, Mrs. Whitworth.

Fraternities: Professors Hamsher, Elbin, Thompson, Harper, Raabe, Carpenter.

Graduation and Degrees: Deans and Directors, Registrar, Chairman.

Library: Professors Stauffer, Beckwith, Gray, Freeman.

Literary Societies: Professors Raabe, Niswander, Berger, Thompson, Campbell, Schoonover.

Loan Fund: Dr. Smith, Professor Whitworth, Dr. Smull.

Physical Education: Dr. Newton, Professors Wilson, Sleesman, Major Deming, Dr. Smull.

Student Publications: Professors Freeman, Wilson, Beckwith, Fairchild, Binkley.

Students' Welfare: Dr. Anderson, Dr. Burris, Professors Wilson, McCoppin, Blain, Gray, Harrod.

Summer School: Dr. Davison, Dr. Smull, Professors Freeman, Huber, Berger.

Schedule: The Deans and Directors.

OHIO NORTHERN UNIVERSITY BULLETIN

New Series ADA, OHIO, JUNE, 1921 Vol. XIV, No. 1

Seat of Ohio Northern

Ada, the seat of the Ohio Northern University, is an attractive little city in Northwestern Ohio, on the Pittsburg,, Fort Wayne & Chicago Division of the Pennsylvania Railroad, fifteen miles east of Lima and twenty-eight west of Upper Sandusky. Railroad connection is made at Lima with the Baltimore and Ohio and the Lake Erie & Western division of the New York Central Lines and the Erie Railroad. Connection is also made at Upper Sandusky with the Hocking Valley, at Forest, sixteen miles east, with the Big Four, and at Dunkirk, ten miles east, with the Ohio Central Lines.

Lying on the great watershed separating the waters tributary to the Ohio and the Mississippi from those flowing into the Great Lakes, Ada, with its population of three thousand, has an elevation above sea-level as high as any in the State, with healthful climate, sanitary conditions well guarded, and an abundant supply of excellent water from drilled wells. The town is unsurpassed in healthfulness and freedom from epidemics. Numberless forest trees line avenues and adorn premises, affording a delightful retreat during the warm summer months. The paved streets, hot and cold water plants, electric light and natural gas evidence the wide-awakeness of the citizens in the matter of public utilities and city improvements.

Historical Sketch

On August 14, 1871, in a three-story brick building erected in the campus where the Lehr Memorial now stands, the Northwestern Ohio Normal School, with Henry Solomon Lehr at its head, was formally opened "for the instruction and training of teachers in the science of education, the art of teaching and the best methods of governing schools."

The name was changed to Ohio Normal University and a charter from the State issued on May 19, 1885, the policy and management remaining the same as before.

The school was under private control from the outset until September, 1898, when the owners sold to the Central Ohio (now the West Ohio) Conference of the Methodist Episcopal Church the real estate, personal property and equipment belonging to the school. Under the new administration, as fast as existing contracts permitted, the departments, heretofore semi-independent, were reorganized under one management, and the respective heads, designated deans, were placed on salary instead of commission. At the same time instruction in the main school was made departmental, with the head teacher in each department director thereof. The new charter was dated May 24, 1889.

In 1904 the institution was re-named Ohio Northern University, and the charter amended December 31, 1907.

In the spring of 1910 the Trustees recognized the College of Liberal Arts as distinct from the Normal School, and appointed a dean in charge. The courses leading to the scholastic degrees were strengthened, the standard number of hours required for the bachelor degrees adopted, and the conferring of the Master's degree discontinued until such time as the resources of the institution should permit organization for post-graduate instruction.

Ohio Northern's Mission

The Ohio Northern University invites to her privileges all worthy young men and women, especially the self-dependent, who are ambitious for a liberal education. Her entire regime has in view the creation and maintenance of an atmostphere inspirational and congenial to plucky young people of both sexes whose lot in life has taught them the worth of hard labor and close economy. Jeans and broadcloth, homespun and silk have equal chance. The atmosphere is thoroughly democratic, a leading characteristic being the spirit of good fellowship existing among the students, a majority of whom are relying mainly on their own pluck and push. Thorough and practical instruction in all the departments is provided at a minimum expense to the student.

Unique Features

The school year is forty-eight weeks in length, divided into four terms, designated, respectively, Fall, Winter, Spring and Summer Quarters. Instead of measuring time and work by Freshman, Sophomore, Junior and Senior years, credit is based on number of hours of class work done in each subject. At the beginning of the Winter Quarter the Junior and Senior classes are formally organized under the direction of a member of the faculty. Those having at least 90 quarter hours and100 points are admitted to the Junior organization; those having at least 135 quarter hours and 135 points are admitted to the Senior organization. The student must present a certificate from the registrar.

Students enter at the beginning of any quarter (except in Pharmacy), find their places where certificates or examination credits rank them, pursue studies as many terms as their plans and means allow, and are duly credited on the records with the work done. On satisfactorily completing the required number or hours in the selected curriculum the appropriate degree is granted, the diploma bearing the date of Commencement Day of the year in which the work is finished.

General Directions

Any one intending to enter the University and desiring to arrange matters beforehand will address, "The University, Ada, Ohio."

A satisfactory assignment to classes can best be made at the beginning of the fall quarter; however, students are admitted at the opening of any term.

The applicant for a degree, coming from another college, is required to spend at least thirty-six weeks in residence.

On arrival the newcomer is expected to report at once at the University office to receive needed information regarding lodging places and boarding houses, obtain a card of matriculation and arrange his work.

Requests for Credits

To insure prompt attention, requests for credits, certificates of graduation, class standing, recommendations, et cetera, should be accompanied by a stamped self-addressed envelope.

Each student is entitled to one copy of his credits; 50 cents is charged for each additional copy.

EQUIPMENT

Location and Buildings

The **Campus** lies in a resident portion of the village, a few blocks south of the Pennsylvania Station.

In the midst of the campus stand four memorial buildings: On the south side, the **Dukes Memorial** with commodious classrooms, offices and laboratories, devoted to science, mathematics and engineering; in the center, the **Lehr Memorial**, in which are located the executive offices, the Y. M. and Y. W. C. A. rooms, the library and reading rooms, the apartments of Law and Commerce departments and a magnificent auditorium for chapel and other public meetings; to the north, the **Hill Memorial**, devoted to language, history, philosophy and education; in this building are the mechanical and electrical laboratories and the attractive halls of the Franklin and Philomathean literary societies.

In the northeast angle of the campus is located **Brown Memorial**, fitted and equipped for gymnasium and used as an assembly hall for social functions. Recently a wing has been added, with equipment and special appliances for instruction in Domestic Science. The University Cafeteria is located in the basement.

Pharmacy Hall, in the northwest angle, especially arranged and equipped for the College of Pharmacy, contains also the spacious assembly room of the Adelphian literary society.

Just outside, southwest of the quadrangle, is **Music Hall** with assembly room, offices and private practice rooms.

Laboratories and Museum

The Biological Laboratories, located on the second floor of Dukes Memorial, are well lighted and equipped with water, gas and electricity. The department makes use of a lantern to illustrate lectures and other phases of the work. In the laboratories is found an ample supply of reagents, stains and glassware, also oil-immersion lens, dissecting microscopes, camera lucida, micrometer eye-pieces, a large rotary microtome, hand microtome, paraffin bath, microscopic slides, models, charts, and preserved materials for study—enough material and apparatus to do modern work in the courses offered.

An experimental greenhouse of ample size with a laboratory attached has been erected recently. This plant house offers facilities for many phases of class work and laboratory practice in Biology, Horticulture and Pharmaceutical Botany. An aquarium also furnishes much material for study.

The University was recently the recipient of a modern X-ray machine from Dr. A. S. McKitrick, of the McKitrick hospital, Kenton, Ohio. The machine is of the type used for all kinds of biological and hospital X-ray work. This piece of apparatus will be especially valuable to pre-medical students and others in the science departments.

Dr. McKitrick, the donor, is an alumnus of the institution, and also a member of the Board of Trustees.

The Chemical and Physical Laboratories are large, well-lighted, and equipped with natural gas and alternating and direct current. In the general chemical laboratory are one hundred and twelve lockers with first-class outfits, including all apparatus necessary for thorough individual work. The physical laboratory has ample accommodation for more than one hundred and fifty students, with apparatus for experimentation both in preparatory and college Sophomore physics.

The Pharmaceutical and Dispensing Laboratories, occupying the entire basement of Pharmacy Hall, are supplied with modern apparatus and desk arrangements; the equipment affording every facility for thorough individual work in practical chemistry and the various pharmaceutical preparations. The equipment includes a complete outfit for gold and silver assaying and other metallurgical work. In the "specimen room" is an interesting exhibit of all the crude drugs of materia medica, a complete line of U. S. P. chemicals, a fine case of salts and alkaloids, and another of biological specimens, such as serums, antitoxins, and the like. On the first floor a well-lighted microscopical laboratory is supplied with an outfit of compound microscopes, accessories and appliances for special work in pharmacal micro-technique.

The Museum contains numerous specimens and collections for illustrating geology and the biological sciences. In the geological alcove are found many of the common minerals and ores, many rare ones, meteorites, plant and animal fossils representing several of the chief orders of geological importance, the shells and skeletons of many living molluscs and vertebrates. The zoological alcove exhibits about 200 birds, representing one or both sexes of nearly all of those common to this region, all animals, native to Ohio, many kinds of snakes, and several hundred specimens, of the orders of invertebrates preserved in jars. For illustrations in anatomy a human skeleton and structural models of various organs are at hand.

Recently, through good will and generosity there has come into the possession of Ohio Northern a private collection of rare and valuable geological specimens, the result of years of enthusiastic study and research on the part of the donor, Mr. E. R. Webber, of Kenton, Ohio. "May his tribe increase!"

Library

In the disastrous fire of 1913 the University lost its library. In its stead there is being established by purchase and gift a new and better one, in apartments built for the purpose, on the second floor of Lehr Memorial. Here in spacious and well-lighted quarters have been provided a reading room accommodating one hundred and fifty students, and a stack room with capacity for 60,000 volumes. To the south, on the same floor, is located the Law Department with a legal reference library of some 2000 volumes.

The University makes definite provision for the building up of the library, but, since books are costly and anything like an adequate equipment means a large investment of money, all the friends of the institutions are earnestly invited to assist by making donations of up-to-date books and by generously contributing funds. The departments of history, literature, sociology, economics and philosophy especially suffered from the fire. Any contributions of libraries and single volumes practically serviceable in these and the other fields of learning will be gratefully received and acknowledged. Those desiring to make donations and not knowing just what would meet the need, kindly communicate with the heads of departments concerning the matter.

Athletic Field

Within a block and a half of the Campus, lie the Athletic Grounds, owned and controlled by the University, on whose area of several acres the Baseball Diamond, the Football Gridiron, the Running Track, and the Lawn Tennis Courts are located.

University Farm

The University possesses a tract of land within a block and a half of the Campus, containing ninety acres of rich, productive soil under cultivation, devoted to the practical demonstration of farm products and problems.

President's Home

By action of the Board of Trustees a desirable piece of property a square from the Campus has been purchased as a residence for the President of the University.

STUDENT SOCIETIES AND ACTIVITIES

Literary Societies. Three Literary Societies, chartered, and meeting in furnished assembly rooms, are maintained by the students exclusively—the Franklin, Philomathean and Adelphian.

Under the supervision of the societies, clubs are organized each term for practice in debate, extempore speaking, and parliamentary law.

The Ohio Northern Debating Association, a student organization, arranges for and engages in forensic contests between Ohio Northern and other institutions. Membership is open to any student interested in the object of the association, irrespective of department. A certain per cent of the Student Activity fee is appropriated to the maintenance of forensic work. Debaters are selected and assisted in their training by a faculty committee. As a mark of distinction the University letter is awarded to those participating in intercollegiate contests.

Christian Associations. The Young Men's and Young Women's Christian Associations have enthusiastic organizations in the University and wield a most wholesome influence on the lives and habits of the students.

The Young Women's Christian Association has a membership including about ninety per cent, of all the young women in attendance at the school.

A devotional meeting open to all the University women is held weekly. At the beginning of each quarter Bible and Mission Study classess are organized under efficient teachers.

Both Y. M. C. A. and Y. W. C. A. Bible Study classes and religious meetings are open respectively to all men and women enrolled in the University.

Moral and Religious Culture

Much attention is given to awakening and fostering an aspiration to attain to the highest type of Christian manhood and womanhood.

While the University is the property of the West Ohio Conference of the Methodist Episcopal Church and is denominational in its ownership and control, it is in no sense sectarian. Students of all religious denominations are received on equal terms and treated with equal consideration. They are urged to identify themselves with the work and participate regularly in the services of the church of their choice. The six churches of the city cordially welcome students to their religious and social meetings and bible classes.

The department of Philosophy and Religious Education mentioned elsewhere gives opportunity to those who wish to take up the study of religious problems to fit themselves for life's work.

Musical Organizations

Choral Society. The Choral Society is made up of both university students and townspeople and is open to all who love good music. The society meets every Monday evening that school is in session during the first three quarters. The fees charged are nominal. The society aims to give two public performances each year.

Men's Glee Club. A glee club of twenty voices has been organized, for the purpose of giving home concerts and touring the state each year.

Girls' Glee Club. This Club is organized to learn the best in choral works written for female voices, and to give concerts each year.

Orchestra. A large orchestra is being organized to take up standard works of the great composers, and to play at the concerts of the Choral Society.

Band. A splendid band is maintained, affording an opportunity for practice to students playing a brass or reed instrument.

Publications

The "**Annual**" is a sumptuous serio-comic volume published by each out-going class, and is always awaited with eagerness and treasured as a souvenir of college days.

"The Northern Review" is the college paper. It is published during the regular college year by the students of the University.

Athletics

College teams in baseball, football, basketball, and track athletics are maintained. Interdepartmental, inter-class and intersociety sports are also encouraged.

The department of Athletics is managed by a Board of Directors, comprised of the Faculty Committee on Athletics (appointed by the President of the University), the Athletic Director, and a student member for each college sport; the student members being elected by the Athletic Association, a student organization, to which any student of the University may belong.

Ohio Northern became a member of "Ohio Conference," better known as the "Big Six" of Ohio, an October 13, 1916.

A fee of $1.00 per quarter is charged for use of gymnasium including locker and bath. Upon payment of tuition, the student receives a ticket of admission to all intercollegiate athletic events.

Lectures and Concerts

An excellent series of lectures and concerts is given each year. The best talent, both in the lecture field and musical world is brought before the student body.

Technical and Social Organizations

The following technical organizations have regular meetings:

The American Institute of Electrical Engineers.

The American Association of Engineers.

The American Society of Mechanical Engineers.

The Chemical Engineering Society.

The Pharmaceutical Association.

The Law Association, the Educational Association, the Commercial Club, and the Pre-medical Association also have their regular meetings. Topics pertaining to the several departments are discussed, and addresses are given by people prominent in their respective lines of work.

Assemblies

Convocations are held each school day, except Monday, from 8:00 to 8:30 a. m. The aim of which is not only to recognize the duty and privilege of daily devotions, but to foster a university spirit by bringing together into one assembly the students of the several departments to listen to practical addresses and talks from members of the faculty and others, and to be entertained by those connected with the departments of Music and Expression. Attendance is compulsory. One-fifth credit hour demerit for each absence above five.

At the public functions of Commencement week, members of the faculty and of the graduating class wear academic costume in keeping with their degrees. The University colors are orange and black.

Room, Board and Home Comforts

In order to insure good wholesome food and plenty of it at the very least possible cost to the student, the University has recently installed a large, well equipped Cafeteria in the Brown Building. This is very much more than "an eating place". With beautiful furnishings and home comforts, this is truly a happy campus "Community center". It is open to the public.

Good board in private homes, $3.50 to $4.50 per week.

Meal tickets at restaurants, $4.50 to $5.00 per week.

Dormitories, the "bugbear" of students in some institutions are unknown here. Ada is strictly a school town. The citizens throw open their homes to the students. They have long been noted for their hospitaility. Since a majority of the families are engaged in rooming students, the competition is sharp and prices are low. Rooms vary from $1.50 to $2.50 per week according to location and appointments.

EXPENSES

Matriculation

No matriculation or entrance fee is required to enter the University . Some schools advertise free tuition, but it will be found that entrance fees with them amount to more than tuition fees here, a fact not to be overlooked by those selecting a school thorough, yet less expensive.

All fees such as Matriculation, Registration, Library, Student Activity, etc., are included in tuition charges except a small maintenance fee in laboratory and field work, also a locker fee in Physical Education.

Tuition Rates

In the Departments of Liberal Arts, Education, Engineering, Commerce, Agriculture, and Preparatory School, tuition rates are as follows:

For one quarter, (12 weeks), in advance	$ 34.00
For two quarters, in advance	67.00
For three quarters, in advance	100.00

In the College of Law:

For one quarter (12 weeks), in advance	$ 38.00
For two quarter, in advance	75.00
For three quarters, in advance	109.00

In the College of Pharmacy:

Tuition for 32 weeks, including drugs, chemicals and laboratory fee, in advance	$125.00

In the College of Music, School of Expression, and School of Fine Arts:

Tuition rates in detail given in the descripton of the respective departments.

All students paying the regular tuition fee are admitted to the general classes in Rudimental Music without extra charge.

The tuition rates for the Summer quarter are $25.00 for the 12 weeks, or $14.00 for 6 weeks.

Laboratory Fees

Fees to cover cost of chemicals and other materials used in the laboratories are charged each term as follows:

Preparatory and College

Inorganic Chemistry I, II, and III, per quarter, $4.00; all others, $5.00. Preparatory Physics, $2.50; College Physics, $3.00. Biology, Botany and Zoology, each $2.50. Physiology, $1.00. Preparatory Botany, $1.00. Domestic Science, $8.00. Horticulture, $2.50. Agriculture, $1.50. Engineering, Plane Surveying, Field Engineering, Railroad Engineering, each $2.50; Mechanical Engineering, $3.00; Electrical, $4.00; Electrical IX, $7.00; Machine Shop, $2.00; Testing of Materials, $3.00.

Special Fees—Bookkeeping and Stenography

A fee of $5.00 is charged on entering the Office Practice and Banking Classes for use of ledgers, commercial paper and other supplies.

A fee of $4.00 is charged for use of typewriter twelve weeks, one hour a day; two hours per day, twelve weeks, $7.00. A fee of $10 is charged for use of post-machine and calculator per quarter. All who pay the above fees are entitled to free use of the Burroughs Adding Machine. Others are charged $1.00.

Graduation Fees

Neatly executed diplomas are awarded to those who complete any regular course of study. The diploma fee is $5.00, for paper, $6.00 for vellum and $7.00 for parchment.

Refunding

In case of withdrawal from college, or change of course, within two days of registration, $1.00 will be charged. After two days, refunds will be made on the following basis: Before the end of two weeks, 80%; before the end of four weeks, 60%; before the end of six weeks, 40%; after the sixth week no refund of fees will be made. Receipts are not transferable.

AID TO STUDENTS

Loan Fund. The Board of Education of the Methodist Episcopal Church lends money to members of that church taking a regular course in school, who have been in attendance long enough to merit a recommendation from the Faculty. No interest is charged if the debt is paid within five years from the time of leaving school, but a payment of $5.00 each year must be made on the principal, after the applicant quits school. The only security required is a recommendation from a quarterly conference. Loans are made at the beginning of each quarter. Application should be made two weeks before the opening of the quarter and no applicant can be received later than the close of the first week of the quarter. The maximum amount allowed to each applicant is $100 a year. An applicant must have been in attendance at least one quarter.

Scholarships. The University has received through generous donors six scholarships of $1000.00 each, the income of which, amounting to $50 to $60 per year, is to be devoted to the assistance of worthy students. The recipients of these incomes may be chosen by the donors and when not so chosen, shall be selected by the President and the Faculty of the University, and must have been in attendance at least one term before receiving aid. The scholarships are as follows:

1. The J. T. Cunningham Scholarship, M. E. Cunningham, Mrs. L. A. Cunningham, and George T. McCoppin, Ada, Ohio.
2. The George Franklin Getty Scholarship, by George F. Getty, Los Angeles, Calif.
3. The James E. and Caroline Purvis Scholarship, by James S. Purvis, Bremen, Ohio.
4. The Parlette Scholarship, by Ralph Parlette of Chicago Illinois.

5. The Pleasant Hill Society of the Roundhead Circuit of the Methodist Episcopal Church.

6. The Stambaugh Scholarship of $100 per year, by Mrs. Avanell Stambaugh of Ada, Ohio.

Prizes. Through the President of the University, prizes of $15 and $10 are awarded to winners in an annual oratorical contest among the three Literary Societies.

Miss Pearl A. M. Stahl offers $15 and $10 prizes annually to the two successful members of the Philomathean Society.

Dr. George W. Crile, of Cleveland, an alumnus, has permanently provided for $15 and $10 prizes for the winners in the Adelphian Literary Society.

Mr. George F. Getty, '79, offers $15 and $10 prizes annually to the members of the Philomathean Literary Society winning honors in debate.

Hon. S. A. Hoskins, Columbus, O., $15 and $10 prizes to the members of the Franklin Literary Society winning honors in debate.

Mr. G. Frederick Pfeiffer of Akron, Ohio., gives $25 a year to the engineer making the most quality points.

Mrs. Caroline Ames of Ada, Ohio, gives $25 a year for five years for winners in the college song contest.

Mrs. Avanell Stambaugh of Ada, Ohio, gives $20 a year for five years for winners in the song contest.

Work. Many students in the University earn a part of their expenses by working as waiters, janitors, and at other occupations in the town and vicinity.

ADMISSION AND ENTRANCE

Only men and women of good moral character are admitted to the University. Students submitting transcripts from other schools must furnish evidence of honorable dismissal from the same.

Fifteen units of High School work are required for entrance to any of the colleges of the University. These units must be properly distributed. Units will be accepted without question from first grade High Schools, Academies, or Preparatory Schools. The acceptance of work from schools of lower rank will be determined by the entrance committee. (See Liberal Arts section for proper distribution of units).

Entrance examinations will be given the first day of each quarter to those who make advanced application for the same. (See Calendar for dates).

Students not working for a degree may be admitted to the University providing they present their reasons for desiring this kind of work and show that they are qualified to pursue the subjects desired. Under no circumstances can such students become candidates for a degree. They are classed as "Special Students."

The official forms for certificates of entrance which may be had on application to the entrance examiner, should be used in all cases, in order to insure the presentation of necessary information.

The credited statement of entrance credits which should be sent by the Principal of the school **directly** to the University, must be in the Registrar's office ten days prior to the opening of the quarter to avoid delay in registration and the payment of the fee for late registration.

Registration

The registration days for each quarter are indicated in the Calendar (see page 2). Failure to register on these days will subject the delinquent to the payment of a special registration fee of $1.00 per day for each day's delinquency.

The first duty of the new student is to matriculate.

After matriculation, (and also at the beginning of each quarter), the student is given a registration card, which he carries to the Dean of his department. The Dean advises and directs what subjects are to be pursued during the quarter and indicates these, together with his approval, on the registration card. The student then presents the registration card to the Treasurer of the University, pays the required fees, and is given a receipt which becomes a ticket of admission to the classes named thereon.

The Deans will be in their offices on Monday and Tuesday to advise students concerning their work for the quarter.

Discipline

The opportunities and advantages of the University are offered to all sincerely desiring to develop the best in themselves, and aiming at a broad culture and a thorough preparation for useful service.

Self-government is made the key-note in discipline. All are treated as ladies and gentlemen until they prove themselves otherwise. Incorrigible and morally corrupt persons are summarily dismissed from the institution. Every possible help is afforded in the formation of right habits, but those who cannot govern themselves are not wanted.

Regular attendance upon class work, prompt response to duty, and thoroughness in all assigned tasks are insisted on, not more for their bearing on scholarship than for their effect upon conduct and life.

The following rules on absences from class exercises are strictly enforced:

Each student is required to attend every session of the classes in which he is registered. All absences shall be reported to the instructor upon a regular form furnished by the registrar. This report shall give class, date, and reason for absence and must be submitted to the instructor immediately after the occurrence of the absence. Failure on the part of the student to secure and submit such form, automatically debars him from consideration by the Committee.

Five absences are allowed from Chapel attendance, after which this rule becomes effective.

Final action on this report will be taken by the "Attendance Committee" of which the registrar shall be chairman. The committee may or may not grant an excuse for such absence. **Unexcused absences reduce the college credits one-fifth of an hour for each absence.**

Unexcused absences during the two days preceding or the two days following a holiday will count double.

The "Attendance Committee", or the instructor, is empowered to exclude from a course any student whom they may consider to have been absent so often as to seriously impair his class standing. Any student so excluded will be given a mark of F.

Dropping or Changing a Course

In case a student desires to drop or change a course, it must be done within seven days after registration in any quarter, and with the consent of his dean or director and professors concerned.

MARKS AND EXAMINATIONS

The credit value of a course is expressed in hours, an hour of credit being given for the satisfactory completion of work requiring one class exercise a week for one quarter. It is equivalent to two-thirds of a semester-hour.

Grade Marks. Ex. excellent; G. good; Av. average; P. passing; Cn. conditioned; F. failure.

Cn. means that the grade has been withheld because the work of the course has not been completed.

F. means that the student receives no credit whatever for the course, and it must be taken again.

Ex. means that "a student has grasped the subject of a course and, by thinking about it and reacting upon it, has made it his own; it represents industry and thoroughness, as well as natural ability and individual insight."

G. means that "a student has intelligently fulfilled the requirements for a course, but without showing decided ability and individual insight in reacting upon the subject so as to call it entirely his own."

Av. means "fair work, either steady work of a mediocre quality, or work of a higher quality which is uneven, irregular or fragmentary."

P. means that the student's work is "barely passing."

All grades of Cn. must be removed by examination during the next quarter of residence. Otherwise the grade becomes F.

All subjects in which a grade of F is made must be taken again the first quarter in which the subject is given after the grade was made.

Examinations. Mid-term examinations are held at the discretion of each professor. Final examinations are held as indicated in the calendar.

In order to graduate in any course the student must have one (1) quality point for every credit hour.

Points are based on the credit marks, as follows: Each hour of Ex. counts 3 points; of G., 2 points; of Av., 1 point; of P., 0 point; of Cn., -2 points; of F., -3 points.

A student making marks of F or Cn in more than one-half of his assigned work for any quarter will be denied future registration except he first petitions the faculty and gains their consent to future registration.

DEGREES

The work of the University is entirly undergraduate.

The Bachelor's degree is given in all of the 180 hour courses of the University.

A diploma is given in the two-year courses in Education, Commerce, Pharmacy, and Expression.

Certificates are issued in the preparatory school, and in one year courses in the School of Commerce and Expression.

ORGANIZATION

1. The College of Liberal Arts.
2. The College of Education.
3. The College of Engineering.
4. The College of Law.
5. The College of Pharmacy.
6. The A. D. Juilliard School of Music.
7. The School of Commerce.
8. The School of Agriculture.
9. The School of Expression.
10. The Preparatory School.
11. The School of Physical Education.
12. The School of Religion.

Faculty Meetings

General faculty meetings are held on Tuesday of the second and seventh weeks of each quarter. Time, 3:00 p. m.

Departmental faculty meetings are held on Tuesday of the fourth and ninth weeks of each quarter. Time, 3:00 p. m.

COLLEGE
OF
LIBERAL ARTS

HARVEY EVERT HUBER, DEAN

ADMISSION TO COLLEGE OF LIBERAL ARTS

Candidates of good moral character may apply for admission upon the following plans:

1. **By certificate.** Graduates from first grade high schools or accredited academies whose credits show proper distribution of units are admitted, without examination, on presentation of properly signed entrance certificates. These certificates must be made out and signed by the proper official of the school from which the applicant comes, and show in detail (1) the text book used in each subject, (2) the amount of work completed, (3) the number of weeks spent thereon, (4) the length in minutes of the recitation period, and (5) the mark or grade secured. Blanks for this purpose may be had by addressing "The University Entrance Examiner." This entrance certificate should reach the Registrar's office at least ten days before the time when student expects to enter. Candidates for admission are strongly urged to attend to this matter as early as possible.

2. **By Examination.** Candidates who are not graduates of first grade high schools or academies and are therefore deficient in some of the units for admission may be admitted upon examination. Applicants must notify the Entrance Examiner in advance so that arrangements may be made to hold examinations on first day of registration.

3. **On Advanced Standing.** An applicant from another college, seeking for advanced standing must present (1) evidence of honorable dismissal, (2) a full record of the applicant's preparation for college, (3) a transcript of his college record, subject by subject, with the grade obtained in each and the hours credited. He should submit a catalogue of his college, bearing his name and of the issue current at the time of his admission to that college.

Advance credit will not be given for more than 135 quarter hours (90 semester hours).

4. **As Special Student.** Those persons not desiring to earn a degree may enter any department and pursue the studies they choose, if, on consultation, the head of the department is satisfied that they have sufficient preparation to pursue the work successfully. Such applicants are classified as "Special Students."

Entrance Requirements

Fifteen units are required for unconditional entrance to the college. Students with fourteen units are admitted on condition that the deficient unit be made up during the first four quarters of residence. No student is admitted to Freshman rank with less than fourteen units. The deficient unit may be removed by taking courses in the Preparatory School of the Ohio Northern University, by examination, or by substituting certain Freshman collegiate courses. During the Summer quarter the student has splendid opportunity for removing the deficiency in entrance.

Distribution of Entrance Units

Fifteen units distributed as indicated below are required for entrance, and no student is admitted to Freshman rank who does not present at least fourteen units.

1. The following 9 units are prescribed for all.

English, 3
Foreign language, 2 (which must be in one subject).
Mathematics, 2
History, 1
Science, 1

2. At least 4 additional units must be selected from the following subjects, the number indicating the maximum number of units that will be accepted in any subject:

English, 4
Greek, 3
Latin, 4
French, 3
German, 4
Spanish, 3
History and Civics, 4
Mathematics, 3
Physics, 1
Chemistry, 1
Phys. Geog., 1
Botany, 1
Zoology, 1
Physiology, 1
Agriculture, 1
General Science, 1

3. Not more than two units may be presented from the following subjects:

Mechanical Drawing, 1
Freehand Drawing, 1
Domestic Science, 1
Stenography (if a full unit) 1
Manual Training or Shop Work, 1
Commercial Law, 1
Commercial Geography, 1

4. The Entrance Committee, consulting with the department concerned, may consider the acceptance of:

Astronomy, ½
Bible, ½
Economics, ½
Psychology, ½
Sociology, ½

5. The certified statement of entrance credits must be in the Registrar's office ten days prior to opening of Quarter to avoid delay in registration and the payment of the fee for late registration.

Excess Entrance Credit

Candidates who present sixteen or more units may, at the option of the Entrance Examiner, receive advance credit for certain courses on the basis of eight quarter hours for one high school unit. Credit in foreign language may be obtained only when student offers for entrance more than four units of foreign language. Applicants for excess credit must show exceptional ability in college courses during their first two quarters of residence. The credit must be secured during the third quarter of residence in the University.

Advisers

On his admission to college rank each student is placed in charge of an adviser. This adviser, a member of the faculty, is appointed by the dean of the College in which the student is enrolled.

The duty of the adviser is to counsel the student in regard to the planning of courses, the selection of studies, and to aid him in the problems of his college life and work.

This adviser retains oversight over the student assigned to him, until the student has finished 90 quarter hours of work. At the end of 90 quarter hours the student should elect the department in which he desires to complete his major work, and the professor in charge of that department then becomes his adviser.

COLLEGIATE COURSES

The regular courses of instruction offered in the College of Liberal Arts are classified in the following departments:

Agriculture
Biology
Chemistry
Education
English
Greek
History
Latin
Mathematics
Modern Languages
Philosophy and Religious Education
Physics
Psychology and Sociology
Political Science and Economics

From the courses offered in the departments named above, schedules are arranged, consisting of prescribed and elective courses and leading to the degrees of A.B. and B.S.

To aid the student in planning major and minor courses, the following grouping is set forth:

DIVISION A

Group I.

Major: Bible and Christian Religion
Minors: Psychology
Philosophy

Group II.

Major: English Language and Literature
Minors: English History
Latin or French

Group III.

Major: History
Minors: Economics
English
Political Science

Group IV.

Major: Latin Language and Literature
Minors: Greek, Modern Language
European History

Group V.

Major: Modern Language and Literature
Minors: Ancient or Modern Language, History

Group VI.

Major: Philosophy and Sociology
Minors: Bible and Christian Religion, Education

DIVISION B

Group VII.

Major: Physics
Minors: Chemistry, Mathematics

Group VIII.

Major Mathematics
Minors: Physics, Astronomy

Group IX

Major: Chemistry
Minors: Physics, Biology
Mathematics

Group X.

Major: Biology
Minors: Chemistry, Physics, Sociology

Group XI.

Major: Political Science
Minors: Economics, Education
History

Group XII.

Major: Economics and Sociology
Minors: Political Science, History, Psychology, Biology

Credits for the following are required of all candidates for degrees:

English	18
Foreign Language	15
History	9
Chemistry	12
Psychology	9
Political Science	9
Sociology	9
English Bible	10
Biology 9 or Physics	12
Mathematics 11 or Foreign Language	12

Courses Open to Freshman

Biology 1, 2, 3, 7, 8, 9.
Chemistry 1, 2, 3.
Physics 12.
English 1, 2, 22.
History 1, 2, 3, 20, 21, 22.
Mathematics 1, 2, 3, 4.
Latin 5, 6, 7 (if four units have been presented as entrance credits.)
Greek 1, 2, 3.
German 6, 7, 8 (if two units have been presented as entrance credits.)
French 6, 7, 8 (if two units have been presented as entrance credits.)

Schedule of Prescribed Courses

The following is the schedule of the prescribed courses arranged by years and quarters (Fall, Winter, Spring).

First Year

English 1, 2, 22.
Chemistry 1, 2, 3.
History 1, 2 3.
Foreign Language

Second Year

English 3, 23, 21 or English 6, 7, 12.
Biology 1, 2, 3 or Physics 9, 10, 11.
Psychology 1, 2, 3.
Political Science 1, 2, 3.

Third Year

Sociology 1, 2, 3.
Bible 1, 2.

Fourth Year

Courses elective. By continuing in residence during the Summer quarters the entire college course may be completed in three years. Many of the Summer quarter courses are electives.

Majors and Minors

The candidate for a degree must complete in a logical sequence a major of not less than 27 quarter-hours and a minor of not less than 18 quarter-hours, to be selected from a group in one division; and an orderly sequence of a least 15 quarter-hours in the other division (this constitutes the second minor). In addition to the required courses and the major and minor courses, the student may select, with advice, enough free electives from either or both divisions to bring total up to 180 quarter-hours.

First year courses in Foreign Languages, English 1 and 2, and History 1, 2 and 3 may not be counted toward a major.

GENERAL REGULATIONS

1. The credit value of a course is expressed in hours, an hour of credit being given for the satisfactory completion of work requiring one class exercise a week for one quarter. It is equivalent to two-thirds of a semester-hour.

2. The student may not register for more than sixteen hours of work unless he has received a credit of G. or better in all work of the preceding quarter. The student is advised to carry not more than 18 hours. If the previous record of a student shows that he is able, his Dean may grant extra hours, an honor course, provided the student petitions the faculty committee and gains their consent.

3. No student will receive credit for a subject taken in a class in which he has not been duly registered.

4. The student is held responsible for the work scheduled on the registration card. No course may be dropped or changed except by consent of the Dean and the instructors concerned. Withdrawal from a course without permission shall be checked as a failure in the course.

5. All courses that are conditioned or failed must be successfully completed according to rules in general section of catalogue.

6. Any student wishing to withdraw from this College must notify the Dean and Registrar of his intentions. Failure to do this will jeopardize the standing of the student.

7. No student may be a candidate for a degree who has not been in residence at least three quarters.

8. Mid-term examinations are held at the discretion of each instructor. Final examinations are held during the last week of each quarter as indicated in the calendar. Unexcused absence from any regular examination shall be construed as a failure.

9. No course in which a student has received a grade of P is accepted toward a major.

10. Any student who fails at the end of any quarter to secure full credit for two-thirds of his scheduled courses shall be considered to be on probation for the following quarter.

Classification of Students

For Freshman Standing. No student will be classified as a freshman who has less than fourteen units as entrance credit. Fifteen units are required for unconditional entrance.

For Junior Standing. The completion of at least 90 quarter-hours and not less than 100 quality points.

For Senior Standing. The completion of at least 135 quarter-hours and not less than 135 quality points.

Conditions of Graduation

As a condition of graduation, a student must complete 186 hours (including six hours of physical education) this being the equivalent of fifteen class exercises a week for twelve quarters.

On credits made after September 1, 1920, as a further condition of graduation, a student must have earned 180 quality points. Points are based on the credit marks, as follows: Each hour of Ex. counts 3 points; of G., 2 points; of Av., 1 point; of P., 0 point; of Cn., -2 points; of F., -3 points.

Diplomas are awarded at the Commencement exercises, which are held but once a year, at the close of the Spring Quarter. Those who have finished their work at the close of any previous quarter are expected, as far as possible, to be present at the commencement exercises. Those whose work, beyond question, will be finished by the close of the Summer Quarter are entitled to all the privileges of the graduating class, but the diplomas are not issued until the requirements are fully met. In order to have a seat and part in the class organization, credentials must be obtained from the Registrar.

PRE-PROFESSIONAL COURSES

Pre-Medical Course

Medical Colleges of first rank demand as minimum requirements for admission that the candidate shall have completed a four-year high school or preparatory course with at least 15 units credit, and the first two years, or equivalent, of a college course which stresses the basal sciences upon which the study of medicine rests.

A total of not less than 90 quarter hours (60 semester hours), exclusive of physical education, are required. Altho 90 credit hours of satisfactory work may admit the student to the study of medicine, yet it is highly recommended by both the faculty of Ohio Northern University and the Medical College faculties that the college work should include three years or 135 quarter-hours (90 semester hours).

The pre-medical student may begin the work during the Summer Quarter. However, it is much more desirable that the work be started with the Fall Quarter. The collegiate courses which are required of premedical students are represented in the following table:

FIRST YEAR

Fall Quarter	Winter Quarter	Spring Quarter
English 1	English 2	English 2
French or German	French or German	French or German
Chemistry 1	Chemistry 2	Chemistry 3
Biology 1	Biology 2	Biology 3

SECOND YEAR

Fall Quarter	Winter Quarter	Spring Quarter
French or German	French or German	French or German
Biology 4	Biology 5	Biology 6
Chemistry (organic)	Chemistry (organic)	Chemistry (quan.)
Physics 9	Physics 10	Physics 11
Psychology 1	Psychology 2	Psychology 3

Students who expect to enter Medical Colleges that require Latin for admission should plan to complete two units (Latin Grammar and Cæsar) while in the high school, or in the Preparatory School of Ohio Northern, in addition to the above courses. Students having had a year laboratory course in high school Biology may omit college Biology the first year, and substitute the courses in Zoology. In case this is done Mammalian Anatomy and courses in Sociology or Economics may be substituted for Zoology during the second year.

Arts-Medicine Combination Course

Upon the completion of nine quarters of work in the College of Liberal Arts, the student may be granted a leave of absence for the Senior year, and receive the Bachelor of Science degree upon the successful completion of the first year of work in the medical school. This means a saving of at least one year of time. Premedical students are urged to give favorable consideration to the combination course and receive both the B. S. degree from this institution and the professional degree from the medical school.

The following regulations obtain:

1. At least 140 quarter-hours, exclusive of physical education are required, which must include the regular prescribed courses for the Bachelor's degree.
2. At least 90 quarter hours must be completed in this institution.
3. The student must maintain a high standard of scholarship in order that the first year of medicine may apply as Senior work.
4. The student is subject to the regulations, as far as they admit, of the College of Liberal Arts until graduation.
5. The medical work must be done in an A class medical school.
6. Certificates of the completion, with high grade, of the first year's work in the medical school.

Pre-Dental Course

The better dental schools of the country are requiring one year of collegiate work, known as a pre-dental year, consisting of at least 45 quarter-hours (30 semester hours), in addition to the completion of 15 units of high school work. By agreement these schools insist that in these hours should be included at least 9 quarter-hours of college chemistry, 9 quarter-hours of biology or zoology and 9 quarter-hours of college English. Unless the student has offered one unit of high school physics as entrance, an equivalent of college physics must also be taken. Additional hours to complete the schedule may be taken as indicated in the pre-dental course following.

FIRST YEAR

Fall Quarter	**Winter Quarter**	**Spring Quarter**
English 1	**English 2**	**English 22**
Chemistry 1	**Chemistry 2**	**Chemistry 3**
Biology 1 or **Biology 4**	**Biology 2 or** **Biology 5**	**Biology 3 or** **Biology 6**
Physics 9	**Physics 10**	**Physics 11**

If the student presents evidence that he has had a satisfactory course in high school Biology, he may elect the courses in Zoology instead of those in Biology. The courses in college Physics are optional, if student enters with one unit of high school physics. In case the courses in physics are not required an option is given on year's work in one of the following: Psychology 1, 2, 3; Economics 1, 2, 3; History 1, 2, 3. The student is permitted to carry 15 to 17 hours per week.

Pre-Commerce Course

The Pre-Commerce Course outlined is designed to meet the requirements of colleges and universities that provide commerce courses leading to degrees. It provides a basis for the more specialized courses that are to follow in the third and fourth years, thus making an introduction to those specialized courses that train for leadership in business. Students will do well to select the institution in which they expect to complete their commerce work so that their pre-commerce studies may properly coalesce with those of the institution selected.

FIRST YEAR

Fall Quarter	Winter Quarter	Spring Quarter
English 1	English 2	English 22
Mathematics 1	Mathematics 2	Mathematics 4
History 20	History 21	History 22
Modern Language	Modern Language	Modern Language

SECOND YEAR

Fall Quarter	Winter Quarter	Spring Quarter
English 3	English 23	English 22
Biology 1 or Chemistry 1	Biology 2 or Chemistry 2	Biology 3 or Chemistry 3
Modern Language	Modern Language	Modern Language
Psychology 1 or Accounting 1	Psychology 2 or Accounting 2	Psychology 3 or Economics 3
Economics 1.	Economics 2	

If Chemistry is elected instead of Biology, one of the other courses must be omitted in the second year.

Pre-Agriculture Course

The University offers only those courses in which it has ample laboratory facilities for thorough teaching. For this reason the school of Agriculture offers accredited instruction only for the first two years of a four year course, paralleling in these two years the curriculum of leading state agricultural colleges. Students are advised to complete their last two years in a State University, which, by reason of superior technical facilities for specialized courses, is enabled to serve the student more advantageously.

FIRST YEAR

Fall Quarter	**Winter Quarter**	**Spring Quarter**
Chemistry 1	Chemistry 2	Chemistry 3
English 1	English 2	English 22.
Biology 7	Biology 8	Biology 9
Mathematics 1	Mechanical Drawing I.	Physics 12

SECOND YEAR

Fall Quarter	**Winter Quarter**	**Spring Quarter**
Biology 4	Biology 5	Biology 6
Economics 1	Economics 2	Economics 3
Modern Language	Modern Language	Modern Language
Horticulture 1	Horticulture 2	Horticulture 3

DESCRIPTION OF COURSES

Department of Agriculture

ASSISTANT PROFESSOR STAUFFER

Horticulture 1. Principles of Horticulture, (Fall) 3 Hrs.

Horticulture 2. Principles of Horticulture, (Winter) 3 Hrs.

The principles underlying plant growth and the factors of environment as they are related to orchard, garden, greenhouse and nursery practice are studied. Methods of propagation are taken up in detail. Two hours a week recitation, two hours laboratory.

Horticulture 3. Plant Variations. (Spring) 3 Hrs.

A brief discussion of the history of heredity, evolution and plant improvement is followed by a study of the modification of plants under cultivation through varition and mutation. Lectures and recitations.

It is desirable that the study of these courses be either preceded by, or concurrently taken with, either Biology or Botany.

Department of Biology

DEAN HUBER AND ASSISTANT PROFESSOR STAUFFER

Biology 1. General Biology, (Fall) 3 Hrs.

Two hours a week lecture and discussion, three hours laboratory. 9:30—11:30. M., W., F.

Course I. deals with some of the essential problems found in plant life. Such topics are treated: Cell structure, tissue differentiation, methods of reproduction, food manufacture, metabolism, decay, evolution.

Biology 2. General Biology, (Winter) 3 Hrs.

Two hours a week lecture and discussion, three hours laboratory. 9:30—11:30. M., W., F. Course 2 is given to the study of biological facts as evidenced in the animal kingdom.

Biology 3. General Biology, (Spring) 3 Hrs.

Two hours a week lecture and discusion, three hours laboratory. 9:30—11:30. M., W., F. Spring quarter. Course 3 is a continuation of general Biology 2. Prerequisite: Biology 2.

Biology 4. General Zoology, (Fall) 4 Hrs.

Two hours a week lecture and discussion, four hours laboratory. 8:30—11:30. T., Th.

Biology 5. General Zoology, (Winter) 4 Hrs.

Two hours a week lectures and discussion, four hours laboratory. 8:30—11:30. T., Th.

Biology 6. General Zoology, (Spring) **4 Hrs.**

Two hours a week lecture and discussion, four hours laboratory. 8:30—11:30. T., Th.

These courses in General Zoology constitute a year's work. Representative types form the basis for the study of structure, relationship, development and distribution. Economic importance is given consideration. Prerequisites: Courses 1, 2, and 3 in General Biology. Premedical students presenting a year's work in high school Biology, including laboratory exercises, may omit the courses in General Biology upon advice from the instructor.

Biology 7. Botany, (Fall) **4 Hrs.**

Two hours a week lecture and quiz. Four hours laboratory. 1:00—3:00. M., W., F.

Biology 8. Botany, (Winter) **4 Hrs.**

Two hours a week lecture and quiz. Four hours laboratory. 1:00—3:00. M., W., F.

Biology 9. Botany, (Spring) **4 Hrs.**

Two hours a week lecture and quiz. Four hours laboratory. 1:00—3:00. M., W., F.

The courses in Botany constitute a year's work. A major portion of the time is devoted to the consideration of the physiological processes of plants; the remainder of the year's work involves a study of the structure, development and evolution of plants. Prerequisites: Biology 1, 2, 3.

Biology 10. Systematic Botany. (Summer) **3 Hrs.**

A systematic study of the local flora. Especially designed for teachers and agricultural students. Six to eight hours field work and laboratory per week.

Biology 11. Dendrology. (Spring) **3 Hrs.**

7:00—11:30. Th. or Sat. Spring.

A laboratory and field course designed to acquaint the student with the trees and shrubs represented in the local flora, in both the winter and summer conditions. Lectures upon structure, classification, uses, and distribution. Schaffner's Field Manual of Trees is used as a key.

Biology 12. Histological Technique and Biological Methods. **3 Hrs.**

Lecture and class work two hours, laboratory six to eight hours. Hours to be arranged. A practical course for students who intend to do advanced work and for teachers of biology. Methods of collecting, killing, preserving and preparing material for demonstration and laboratory purposes are considered. Problems which are likely to be met in the biological laboratory of secondary schools are discussed. Those desiring this course will notify the instructor several weeks in advance. Course limited to ten students. Laboratory fee to be fixed. Lecture and recitation two hours a week, laboratory six to eight hours. Prerequisites: Courses 4, 5, 6, 7, 8 and 9, or equivalent. Summer.

Biology 13. Mammalian Anatomy. (Spring) 4 Hrs.

A thorough dissection is made of a typical mammal. This course is designed especially for premedical students. Two hours lecture and quiz, four hours laboratory. Hours to be arranged. Prerequisites: Biology 4, 5, 6.

Department of Chemistry

PROFESSOR SLEESMAN AND MR. HARROD

Chemistry 1. General Inorganic Chemistry 4 Hrs.

Chemistry 2. General Inorganic Chemistry 4 Hrs.

Chemistry 3. General Inorganic Chemistry 4 Hrs.

These three courses constitute the first year of work in general chemistry. In Courses 1 and 2 a thorough study of the non-metallic elements and their compounds is made. The metallic elements and their compounds are considered in Course 3. Balancing equations by the bond method and basic analysis are included in this course. Each of these courses is given every quarter of the year. They must be taken in the sequence above. Three hours lecture and recitation and four hours laboratory. McPherson and Henderson text.

Chemistry 4. Qualitative Analysis. (Fall) 5 Hrs.

Prerequisites: General Chemistry 1, 2, 3.

Chemistry 5. Qualitative Analysis. (Winter) 5 Hrs.

Prerequisite: Chemistry 4.

Chemistry 6. General Organic Chemistry. (Fall) 5 Hrs.

A thorough study of the structure and constituents of the carbon compounds; the hydrocarbons and carbohydrates with their many addition and substitution products.

Chemistry 7. General Organic Chemistry. (Winter) 5 Hrs.

Continuation of Chemistry 6.

Chemistry 8. Quantitative Analysis. (Spring) 5 Hrs.

This work consists of volumetric and gravimetric analysis; the determination of acidity and alkalinity; the analysis of organic and inorganic salts, sugar, syrups, candies, baking powders, milk, urine, etc. A large amount of work is done which the Food and Drug Act demands.

Chemistry 9. Special Chemistry. 5 Hrs.

This includes the chemistry of the pharmaceutical drugs and their preparation; the analysis of ores, clays, cements, coal and coke, soil, limestone and many other compounds.

Department of Education

DR. DAVISON

History of Education 1. Before the Middle Ages. (Fall) 3 Hrs. M., W., F.

History of Education 2. During the Middle Ages. (Winter) 3 Hrs. M., W., F.

History or Education 3. Modern Times. (Spring) 3 Hrs. M., W., F.

History of Education 1, 2, and 3 are required of seniors in both courses in education, but the outside readings are adjusted to the special interests of both classes of students. Open to Liberal Arts students who have had psychology.

Secondary Education 1. Principles and Problems. (Fall) 3 Hrs. M., W., F.

Secondary Education 2. Principles and Problems. (Winter) 3 Hrs. M., W., F.

Secondary Education 3. Principles and Problems. (Spring) 3 Hrs. M., W., F.

The principles of education founded upon psychology, biology and sociology are studied to final working bases. The dogmatical is not attemped, but a rational view-point towards present educational problems is emphasized. Open to Liberal Arts students who have had psychology, and who elect history of education.

Department of English

PROFESSOR FREEMAN AND ASSISTANT

English 1 and 2 may not be counted toward a major in this department.

English 1. College Rhetoric. (Fall and Spring) 3 Hrs.

Exposition and Argumentation. Daily themes. M., W., F. Text: Scott and Denny's Paragraph Writing.

English 2. College Rhetoric. (Winter and Summer) 3 Hrs.

Description and narration. Daily themes. M., W., F. Prerequisites: English I.

English 3. Argumentation. (Fall) 3 Hrs.

A detailed study of the principles of argumentaion; practice in brief making and in debating.

M., W., F. Prerequisite: English 1 and 2.

English 23. Argumentation. (Winter) 3 Hrs.

A continuation of English 3. M., W., F. Prerequisite: English 3.

English 4. The Short-story. (Winter) **2 Hrs.**

A study of the technique of the short-story; Practice in the writing of the short-story. Tu., Thu.

English 24. The Short-story. (Spring) **2 Hrs.**

A continuation of English 4. Tu., Thu.

English 5. Expository Writing. (Fall) **2 Hrs.**

Tu., Thu. Prerequisites: English 1 and 2.

English 25. Expository Writing. (Winter) **2 Hrs.**

A continuation of English 5. Tu., Thu. Prerequisite: English 5.

English 6. Survey of English Literature. (Fall) **3 Hrs.**

M., W., F. _Prerequisite: English 1 and 2.

English 7. Survey of English Literature. (Winter) **3 Hrs.**

M., W., F. Prerequisite: English 6.

English 8. Poetics I. (Winter) **2 Hrs.**

Tu., Thu., 1923. Prerequisites: English 1, 2, 6 and 7.

English 9. Poetics II. (Spring) **2 Hrs.**

Tu., Thu., 1923. Prerequisite: English 8.

English 10. Shakespeare. (Winter) **3 Hrs.**

Histories. M., W., F., 1923. Prerequisites: English 1, 2, 7 and 8.

English 11. Shakespeare. **3 Hrs.**

Tragedies. M., W., F. Spring, 1923. Prerequisites: English 1, 2, 7 and 8.

English 12. Shakespeare. **3 Hrs.**

Comedies. M., W., F. Summer, 1923. Prerequisites: English 1, 2, 7 and 8.

English 13. Milton. **3 Hrs.**

The poetry of Milton is read and studied. M., W., F. Summer, 1923. Prerequisites: English 1, 2, 7and 8.

English 14. Nineteenth Century Poetry. (Fall) **3 Hrs.**

A survey of Wadsworth, Scott, Byron, Keats, Shelly, Morris, Swinburne, and Rossetti. M., W., F.

English 15. Nineteenth Century Poetry. (Winter) **3 Hrs.**

A study of the poetry of Tennyson. M., W., F.

English 16. Nineteenth Century Poetry. (Sprng) **3 Hrs.**

A study of Browning. M., W., F.

English 17. Nineteenth Century Essayists. (Fall, 1923)

M., W., F. Prerequisites: English 7 and 8.

English 18. Nineteenth Century Essayists. (Winter, 1923)

M., W., F. Prerequisites: English 7 and 8.

English 19. The English Novel. (Summer) **3 Hrs.**

The development of the novel and its place in English literature. Stury and criticism. M., W., F. Prerequisites: English 7 and 8.

English 20.	**Literary Criticism. (Spring)**	**3 Hrs.**

A study of the principles of literary criticism as applied to the various forms of literary expression. M., W., F. Open only to Seniors.

English 21.	**American Poetry. (Spring)**	**3 Hrs.**

M., W., F., Summer, 1923.

English 22.	**American Prose.**	**3 Hrs.**

M., W., F. Spring, 1923.

Department of Greek

PROFESSOR SCHOONOVER

I. PREPARATORY COURSES

Greek 1.	**White's First Greek Book**	**5 Hrs.**
Greek 2.	**White's First Greek Book**	**5 Hrs.**
Greek 3.	**White's First Greek Book**	**5 Hrs.**
Greek 4.	**Xenophon's Anabasis**	**5 Hrs.**
Greek 5.	**Xenophon's Anabasis**	**5 Hrs.**

II. ADVANCED COURSES

Greek 6.	**Epic Poetry—Homer's Iliad**	**5 Hrs.**
Greek 7.	**Epic Poetry—Homer's Iliad**	**5 Hrs.**
Greek 13.	**Sacred Greek—One of the Gospels.**	**5 Hrs.**

The work mentioned in courses 4-13 inclusive, is pursued one quarter. A literary study of the period is a part of each course.

Department of History

PROFESSOR NISWANDER

History 1, 2 and 3 may not be counted toward a major in this department.

History 1.	**Western Europe. (Fall)**	**3 Hrs.**
History 2.	**Western Europe. (Winter)**	**3 Hrs.**
History 3.	**Western Europe. (Spring)**	**3 Hrs.**

A comprehensive survey of the history from the barbarian invasions to the present time. Both as to content and methods of study, the work is introductory. History 3 will be offered in Summer quarter of 1922.

History 4.	**English History. (Fall)**	**3 Hrs.**
History 5.	**English History. (Winter)**	**3 Hrs.**
History 6.	**English History. (Spring)**	**3 Hrs.**

An introductory study of English History from the earliest times to the present; the object being to gain a general knowledge of the subject, or for those specializing in American History or English Literature. It is also recommended for secondary teachers.

History 7. Renaissance and Reformation. (Fall) 2 Hrs.

History 8. Renaissance and Reformation. (Winter) 2 Hrs.

History 9. Renaissance and Reformation. (Spring) 2 Hrs.

This course deals with the development of civilization in Italy, Germany, and England in the period from Dante to Luther; the causes, nature and results of the Protestant revolt and the Catholic reformation. The object is to see as clearly as possible the relation of these movements to the present-day civilization. Special study is made of the dominant personalities of the period and the political, economic and social, as well as the strictly religious causes of the reformation. Prerequisites: History 1, 2, and 3, or equivalent.

History 10. French Revolution. (Fall) 3 Hrs.

History 11. Europe Since 1815. (Winter) 3 Hrs.

History 12. Europe Since 1815. (Spring) 3 Hrs.

As detailed a study as time will permit of the Old Regime; the causes, progress and permanent results of the Revolution; the rise of the Napoleonic empire and institution; the public and private career of the great conqueror and especially the growth of democratic institutions in the nineteenth century. Prerequisites: History 1, 2, 3, or equivalent. (To be given 1922-23).

History 13. American History. (Fall) 3 Hrs.

History 14. American History. (Winter) 3 Hrs.

History 15. American History. (Spring) 3 Hrs.

A general study of the history of the United States from the discovery of America to the present time. Political, constitutional and economic phases will receive chief attention.

History 16. Recent American History. (Fall) 3 Hrs.

History 17. Recent American History. (Winter) 3 Hrs.

History 18. Recent American History. (Spring) 3 Hrs.

In this course a detailed study of the history of the United States since 1870 is made. The work is intended for those students who expect to teach history, or those majoring in the Social Sciences. Prerequisites: Course 1, 2, 3, 13, 14, 15.

History 19. The Teaching of History. 2 Hrs.

Lectures and reading upon methods of teaching history in the secondary school, examination of text-books, followed by practice work in the preparation of lesson for teaching, and the conduct of recitation. This course should be taken by all who desire to be recommended for teaching positions in this subject. This course will be offered in the Spring and Summer.

History 20. Economic History. (Fall) **3 Hrs.**

History 21. Economic History. (Winter) **3 Hrs.**

History 22. Economic History. (Spring) **3 Hrs.**

History 20 and 21, deal with the economic development of Modern Europe, with special reference to England, France, Germany. History 22 is a survey of the economic development of the United States. This course has been especially arranged for pre-commerce students. It is open only to Freshmen and Sophomores.

Department of Latin

PROFESSOR SCHOONOVER

It is the aim of this department to utilize as fully as possible the efficiency of Latin as an instrument of education and a means of culture. The student's effort is directed toward an appreciation of Roman writings from a literary viewpoint and as exhibiting the genius of the age in which they were written.

Latin 5. Cicero-De Senectute et Amicitia. (Fall) **5 Hrs.**

Latin 6. Horace—Odes and Epodes. (Winter) **5 Hrs.**

Latin 7. Iivy—Selections from Books XX. and XXII. (Spring) **5 Hrs.**

Courses 5, 6 and 7 are open to students who have presented four units of Latin for College entrance.

Latin 8. Virgil—Eclogues and Bucolics. **3 Hrs.**

Latin 11. Private Life of the Romans. **2 Hrs.**

Text-books for courses 12, 13 and 14; McKail's Latin Literature and the Oxford Book of Verse.

Latin 15. Teacher's Training Course. (Summer) **2 Hrs.**

Lectures and discussions on methods of teaching paradigms, translation, vocabulary and composition. Portions of the authors commonly studied in secondary schools are read, in class, to illustrate the discussions. Open only to seniors whose major work is in the Latin department.

Latin 16. Advanced Composition. **2 Hrs.**

Department of Mathematics

PROFESSORS BECKWITH AND FAIRCHILD

This department offers courses primarily (1) as a part of a liberal education, (2) as requirements for engineering students, and (3) for prospective graduate students in mathematics and physics. In all courses the theory is developed followed by practical applications.

Mathematics 1. College Algebra **5 Hrs.**

The following topics are treated; simultaneous simple equations; graphs; factors; quadratics; rational fractions; indeterminate forms; binomial theorems; evolution and radicals and fractional exponents. Prerequisite: High school algebra. Fall, Winter and Summer.

Mathematics 2. College Algebra **3 Hrs.**

This course consists of a study of irrational functions; irrational equations; complex numbers; quadratic equations and equations in quadratic form; graphs of quadratic polynomials; ratio; proportion; progressions and determinents. Prerequisite Mathematics 1. Fall, Winter and Summer.

Mathematics 3. College Algebra **3 Hrs.**

Topics: permutations; combinations; probability; theory of equations; cubic and biquadratic equations; and determinents. Prerequisite: Mathematics 2. Fall and Spring.

Mathematics 4. Trigonometry. **5 Hrs.**

This course gives attention to definitions and fundamentals; trigonometric equations and functions; inverse functions; solutions of triangles and application. Spherical Trigonometry with certain applications. Prerequisites: Mathematics 1 and 2. Fall, Winter and Summer.

Mathematics 6. Analytic Geometry **5 Hrs.**

The properties of the straight line; loci and their equations; circle; graphs in rectangular and polar co-ordinates; transformations; conic sections and tangents. Prerequisites: Mathematics 1 and 4. Each quarter.

Mathematicss 7. Analytic Geometry **3 Hrs.**

A study of parametric equations and graphs; space coordinates and loci; the plane; special and quadric surfaces; and empirical equations. Prerequisites: Solid Geometry 1. Fall and Spring.

Mathematics 8. Calculus. (Differential) **4 Hrs.**

Functions: their differentation, expansion, maxima and minina together with indeterminate forms. Prerequisite: Mathematics 6. Fall and Spring.

Mathematics 9. Calculus. (Differential and Integral) **4 Hrs.**

Topics treated: Change of variable; maxima and minima of functions of two or more variables; direction of curves; tangents and normals; tangent plane and normal line; direction of curvature; curvature and radius of curvature; osculating circle; simple integrations and applications. Prerequisite: Mathematics 8. Fall and Winter.

Mathematics 10. Calculus 3. (Integral) 4 Hrs.

Topics: Integration of parts; reduction formulae; integration by substitution; integration as a summation; successive integration and applicaton to surfaces, volumes, and moments of inertia; center of gravity; fluid pressure; attraction at a point; hyperbolic functions; and cycloid. Prerequisite: Mathematics 9. Winter and Spring.

Mathematics 11. Descriptive Astronomy. (Spring) 3 Hrs.

A study of the fundamental facts of astronomy and of the methods of modern astronomical research. Chief topics discussed are: reference lines and points; the constellations; the earth and its motion time; the moon; the solar system; the planets; comets and meteors; the sun; and Star Maps by Young. Prerequisites: Mathematics 4 and 7.

Department of Modern Languages

PROFESSOR DAVIS

If the student expects to do university graduate work at least one modern language, preferably French or German, should be continued until a good reading knowledge is acquired. In case the Doctorate is the ultimate aim, the student should have a working knowledge of two modern languages.

GERMAN

German 1. First year German. (Fall) 5 Hrs.

German 2. First year German. (Winter) 5 Hrs.

German 3. First year German. (Spring) 5 Hrs.

Pronunciation, elements of grammar, easy reading, practice in speaking and writing German. Reading: Maerchen and Erzaehlungen, Andersen's Fairy Tales, Der zerbrochene Krug, Germelshausen, Hocher als die Kirche, Traumerein, Immensee.

German 4. Second year German. (Fall) 3 Hrs.

German 5. Second year German. (Winter) 3 Hrs.

Reading, conversation and composition. Schiller's Wilhelm Tell, Marie Stuart and other masterpieces of representative German authors.

German 6. Advanced Course 3 Hrs.

German 7. Advanced Course 3 Hrs.

German 8. Advanced Course 3 Hrs.

Study of selected classics, prose composition, conversation practice, lectures on German literature, history of German literature.

FRENCH

French 1.	**First year French. (Fall)**	**5 Hrs.**
French 2.	**First year French. (Winter)**	**5 Hrs.**
French 3.	**First year French. (Spring)**	**5 Hrs.**

Pronunciation, grammar, writing, oral exercises, graded readings. La Mare au Diabel (Sand), L'Abbe Constantin and other similar grades of writings. z

French 4.	**Second year French. (Fall)**	**3 Hrs.**
French 5.	**Second year French. (Winter)**	**3 Hrs.**

Reading and Translation of French masterpieces, studies in syntax and conversation.

French 6.	**Advanced Course. (Fall)**	**3 Hrs.**
French 7.	**Advanced Course**	**3 Hrs.**
French_8.	**Advanced Course**	**3 Hrs.**

Study of French classics, conversation.

SPANISH

Spanish 1.	**First year Spanish. (Fall)**	**5 Hrs.**
Spanish 2.	**First year Spanish. (Winter)**	**5 Hrs.**
Spanish 3.	**First year Spanish. (Spring)**	**5 Hrs.**

Elementary Spanish, easy reading. Cuentos Modernos, Flores de Espana.

Spanish 4.	**Second year Spanish**	**3 Hrs.**
Spanish 5.	**Second year Spanish**	**3 Hrs.**

Grammar, composition conversation, reading of best Spanish authors.

Advanced Courses in Spanish

Spanish 6.	**Advanced Course**	**3 Hrs.**
Spanish 7.	**Advanced Course**	**3 Hrs.**
Spanish 8.	**Advanced Course**	**3 Hrs.**

Study of Spanish classics, conversation and writing.

Department of Psychology and Sociology

PROFESSOR GRAY

PSYCHOLOGY

Psychology 1.	**General Psychology. (Fall)**	**3 Hrs.**
Psychology 2.	**General Psychology. (Winter)**	**3 Hrs.**

These courses take up the general study of mental processes. They aim to train the student to observe the processes of his own experience and those of others, and to appreciate critically whatever he may read along psychological lines. It is introductory to all work in philosophy and pedagogy and is an important part of equipment for historical and literary interpretation. Prerequisite: One year of college work. Psychology 2, Summer 1922.

Psychology 3. Psychology of Religion. (Spring) 3 Hrs.

This is a study of a special subject based on a thorough elementary course in psychology. Three main topics will be treated: (1) The beginning of religion in the race. Special topics, primitive customs, ritual, taboo, sacrifice, prayer, myth, magic; (2) the beginning of religion in the individual, involving a study in adolesence, the types of religious experience, such as conversion and gradual growth; revivalism in the light of the psychology of suggestion compared with the educational process; (3) analysis of mature religious consciousness with reference to the nature and place of religious emotion and the character and function of religious ideas and concepts. Prerequisites: Psychology 1 and 2.

Psychology 4. Social Psychology. (Spring) 3 Hrs.

The basis of the theory of social consciousness is derived from recent studies in gesture, language and instinct. Questions proper to this science are: (1) the genesis and development of consciousness in the family, gang, school, club, voluntary association and nation; (2) the social character of instinct, feeling, preception and thinking; (3) the interpretation of the crowd, fashion and custom; (4) political parties, the newspaper and the public will; (5) democracy and leadership. This course alternates with Psychology 3. Prerequisite: Psychology 1 and 2.

Psychology 5. Educational Psychology. (Fall and Summer) 3 Hrs.

This course treats of the learning process and the methods of increasing its efficiency. Such topics as instincts and habits, economy in memory and association, attention, interest and the higher thought process, will be discussed. Prerequisite: Psychology 1 and 2 or Educational Psychology 1 and 2.

Psychology 6. Psychology of High School Subjects. (Winter) 3 Hrs.

A study of the adolescent mind together with a comparative analysis of the theoretical and practical aspects of the subjects taught in the high schools. Prerequisite: Educational Psychology.

Psychology 7. Psychology of High School Subjects. (Spring) 3 Hrs.

Continuation of Course I.

SOCIOLOGY

Social Philosophy 1. Sociology. (Fall) 3 Hrs

Social Philosophy 2. Sociology. (Winter 3 Hrs.

A study of the phenomena of social life; the basis of society in nature; the social person; social institutions; social order and process. The course is designed to give an introduction to theoretical and practical sociology, and to systematize the reading, observation, and thinking of the student. Courses 1-2 are prerequisite to other courses in sociology and are required for B.A. and B.S. degrees. Prerequisite: Psychology 1 and 2.

Social Philosophy 3. Sociology. (Criminology) (Spring) 3 Hrs.

A study in social pathology in which the principles laid down in Sociology are applied and an effort made to find the cause and remedy for crime. Prerequisites: Social Philosophy 1 and 2.

Social Philosophy 4. Rural Sociology. (Summer) 3 Hrs.

This course presents those principles of social theory necessary to the study of rural social problems. And includes a careful presentation of the influences of physical environment upon rural progress. Social problems in the rural community are considered in their relations to the economic conditions of the farmer; the land question; the rural church; the rural school; means of communication, etc. These are correlated with like conditions in urban social life so that the student will have a broad view of our social conditions. Prerequisite. Psychology 1 and 2.

Department of Physics

PROFESSOR BERGER AND MR. HOLE

Physics 8. The Teaching of Physics. (Summer) 5 Hrs.

The course is based on Mann's, The Teaching of Physics. The work consists of lectures, reviews of numerous High School texts on Physics, and actual preparation, assignment, and teaching of assigned topics in High School Physics. Also, the student will be given information as to the best method of fitting up a laboratory.

No one will be recommended by the Department for Positions as Physics teachers who has not completed courses 8, 9, 10, and 11.

Physics 9. Premedical Physics. (Fall) 4 Hrs.

Physics 10. Premedical Physics. (Winter) 4 Hrs.

Physics 11. Premedical Physics. (Spring) 4 Hrs.

These courses are for all but Engineering students. Prerequisites: Preparatory Physics, and Physics 12. Class 3 hours; laboratory, two hours.

Physics 12 Freshman Physics. (Spring) 2 Hrs.

This is a lecture and problem course intended to bridge the gap between High School Physics and Sophomore College Physics. The mathematics necessary for courses 9, 10 and 11 will be taken up in this course. Prerequisite: Preparatory Physics. Class, four hours.

Department of Political Science and Economics

PROFESSOR BINKLEY

POLITICAL SCIENCE

Political Science 1. Government and Politics. (Fall) 3 Hrs.

Political Science 2. Government and Politics. (Winter) 3 Hrs.

Political Science 3. Government and Politics. (Spring) 3 Hrs.

A study of the history of political institutions, followed by a general study of the American governmental system, national, state, and local. The course is not a mere survey of the government past and present, but seeks to impress upon the student his part in the political life of the future. The course closes with a brief comparison of the English government and that of the United States. An introductory course. M., W., F.

Political Science 4. Municipal Government. (Fall 3 Hrs.

Political Science 5. Municipal Government. (Winter) 3 Hrs.

Political Science 6. Municipal Government. (Spring) 3 Hrs.

A comparative and historical study of the activities, functions and problems of European and American cities. Special emphasis is placed on recent tendencies toward change in the form of city government and on meeting the new problems arising therefrom. In studying the government of European cities special consideration is given to such features as may be used to advantage in the citiec of the United States. The year's work closes with a thorough study of municipal functions. M., W., F.

Political Science 7. Comparative Government. (Fall) 2 Hrs.

Political Science 8. Comparative Government. (Winter) 2 Hrs.

Political Science 9. Comparative Government. (Spring) 2 Hrs.

A brief survey of the government of the North American, South American, European and Asiatic countries, with a more detailed study of the past and present forms of government in Germany. (1922-23).

Political Science 13. Current Problems. (Fall) 2 Hrs.

Political Science 14. Current Problems. (Winter) 2 Hrs.

Political Science 15. Current Problems. (Spring) 2 Hrs.

A study of the important political, social and economic problems arising from day to day. Reports on topics of current interest given, and an opportunity for free discussion offered. The purpose is not only to keep in touch with current happenings and their relation to past events, but also to aid the student to formulate and express clear, rational opinons on the questions of the day. T., Th.

ECONOMICS

Economics 1. Economics. (Fall) **3 Hrs.**

Economics 2. Economics. (Winter) **3 Hrs.**

Economics 3. Economics. (Spring) **3 Hrs.**

General introduction to a study of Economic questions. The theories underlying the various problems of economics are first dealt with, followed by a brief survey of the principles of foreign exchange, money, currency, banking, labor problems and other topics relating to the general subject.

Economics 4. Labor Problems. (Fall) **2 Hrs.**

Economics 5. Labor Problems. (Winter) **2 Hrs.**

Economics 6. Labor Problems. (Spring) **2 Hrs.**

A brief history of the problems and legislation connected with the labor question, followed by a more detailed study of the present day questions and the attempts being made to meet the problems which have arisen. Open to those who have taken, or are taking, Economics 1, 2, 3. (1922-23).

Economics 7. Money and Banking. (Fall) **2 Hrs.**

Economics 8. Money and Banking. (Winter) **2 Hrs.**

Economics 9. Money and Banking. (Spring) **2 Hrs.**

A study of money, its historical development, coinage, legal tender, the gold standard, index numbers and devices for stabilizing the dollar; credit; banking functions and operation; clearing house system; historical development of American and foreign banking systems and a special study of our national banks under the Reserve System. Prerequisites: Economics 1, 2, 3.

Department of Religious Education and Philosophy

DOCTOR BURRIS

English Bible 1. Old Testament History. (Fall) **5 Hrs.**

English Bible 2. Old Testament History. (Winter) **5 Hrs.**

A survey study of the history of the Hebrew people as presented in the Old Testament from the period of the conquest and establishment in Canaan to the Maccabean struggle and the close of the Old Testament history. The course embraces a preliminary sketch of the patriarchal period, with a more detailed study of the conquest, the period of the Judges, the united and the divided kingdoms, the exile, the revival of Judah and the beginning of Judaism. Two quarters. Prerequisite: One year of college work.

English Bible 3. Life of Christ. (Spring) 5 Hrs.

Constructive studies in the Life of Jesus. The aim of the course is to enable students to construct their own "Life of Christ'' in a true historical perspective. To this end the entire gospel history is studied in a connected way, especial attention being given to the most important political and social features of New Testament times and to the interpretation of critical passages. Prerequisite: One year of college work.

English Bible 4. Christianity in the Apostolic Age. (Fall) 5 Hrs.

This is a constructve study of Christianity from its inception to the close of the Apostolic Era. As far as possible the student is led to construct his own story of the development of primitive Christianity. The study follows in the main the outline of the book of Acts, but the Epistles are also used in so far as they reflect conditions of life and thought during the period. Prerequisite: Life of Christ.

Christian Religion I. Social Message of the Prophets. 5 Hrs.

The prophets will be studied as Social and Political Reformers with a strong religious background. An attempt will be made to answer the question, did they bring to the people of their times, ideals and principles to be used in the solution of their own problems, which are equally useful to us in the solution of our social and political probelms. Credit will be given either for bible or advanced Sociology. Prerequisite: Old Testament History. Summer, 1923.

Christian Religion 2. Social Message of Jesus. (Summer) 5 Hrs.

This course is an effort to get a social and ethical perspective of the life and teachings of Jesus in its present day application. The work consists of free discussions in the class-room and written themes based on the four gospels and recent works on the life of Christ. Credit will be given either for English Bible or an elective in Sociology. Prerequisite: Life of Christ.

Christian Religion 3. Evidences of Christianity. (Spring) 5 Hrs.

A study of the grounds of Christian belief and an inquiry into the great essentials of the Christian faith both in its biblical and philosophical aspects.

Christian Religion 4. Church History. (Summer) 5 Hrs.

A survey of the origin, growth, spread and influence of Christianity on the nations of the world. Summer, 1922.

PHILOSOPHY

Philosophy 1. Logic. (Winter) 5 Hrs.

Elements from the text-book. Practical training in detecting the more common fallacies and in illustrating the condition of proof and laws of evidence.

Philosophy 2. History of Philosophy. (Fall) **3 Hrs.**

The course covers the history of European philosophy from the Ionian Greeks to the Renaissance. Prerequisites: Psychology 1 and 2.

Philosophy 3. History of Philosophy. (Winter) **3 Hrs.**

This is a continuation of Philosophy 2, with special emphasis placed on the philosophical movements of the nineteenth century, including the theory of evolution. Prerequisite: Philosophy 2.

Philosophy 6. Ethics. (Summer) **5 Hrs.**

The theory of morals. The course is a study (1) of the nature of goodness, duty and freedom; (2) of the ethics of the family, society, and the state. Prerequisite: Psychology I.

Electives from other Departments

In addition to the courses described above, candidates for degrees are allowed to present credits from the Departments of Law, Expression, or Engineering as follows:

Law. Elementary Law, 10 hours; Constitutional Law, 10 hours.

Oratory. 10 hours.

Mechanical Drawing I. 4 hours.

Mechanical Drawing II. 2 hours.

Mechanical Drawing III. 2 hours.

COLLEGE OF EDUCATION

DR. JOHN DAVISON, DEAN

THE AIM

The College of Education of Ohio Northern University is devoted entirely to the instruction and training of teachers. The work of the College has been carefully and thoroughly organized and fully meets all the requirements of the State Department of Public Instruction and the standards maintained in the best colleges of the country. All professors and instructors have had successful public school experience as well as special preparation for their work and their ideal of service is a sympathetic co-operation with all students in helping to solve their immediate problems. Such a personal experience with strong educational leaders is the best and most valuable part of any course of instruction.

This college aims to give a sound and thorough knowledge of all the branches studied; to develop correct methods of investigation and research; to aid its students in forming clear conceptions of the dignity and importance of the teacher's work; to trace in the history of education the origin and development of modern principles of teaching; to present in theory and practice approved and rational methods of instruction; to create and maintain high professional standards among present and prospective teachers; and to offer such courses for the professional training of teachers as will broaden their horizon and advance them to higher planes of usefulness, ability, and service.

The Ohio Northern University is on the "Accredited List" of the State Department of Public Instruction. Those who complete the Elementary and Secondary courses described in the following pages will be granted "provisional certificates" without further examination, and, after twenty-four months of successful teaching experience, the certificates may be made permanent by the State Board of Examiners.

Requirements for Admission

"Graduation from a first grade high school or its equivalent, is the legal requirement for admission to all professional courses." These units must be properly distributed. Those not having had this opportunity may complete such work here in the preparatory courses, see "The Preparatory School" elsewhere in this catalogue. Completion of the preparatory course is accepted as the equivalent of a first grade high school training.

COURSES OF STUDY

"Four Year" Schedule for the Training of High School Teachers

Degree: Bachelor of Science in Education

FIRST YEAR		SECOND YEAR		THIRD YEAR	
English 1. History of Education 1. Biology 1. *Elective	3 3 3 6	English 4. General Psychology 1. Principles of Secondary Education 1. *Elective	3 3 3 6	General Methods Sociology 1. School Administration 1. Teaching or Elective *Elective	3 3 2 3 4 or 5
English 2. History of Education 2. Biology 2. Elective	3 3 3 6	English 5. General Psychology 2. Principles of Secondary Education 2. Elective	3 3 3 6	Special Methods Sociology 2. School Administration 2. Teaching or Elective Elective	3 3 2 3 4 or 5
English 3. History of Education 3. Biology 3. Elective	3 3 3 6	English 6. Educational Psychology 4. Principles of Secondary Education 3. Elective	3 4 3 6	Educational Hygiene Educational Sociology School Administration 3. Teaching or Elective Elective	5 3 2 3 2
Drawing Bible Elective	3 3 9	Educational Psychology 5. School Law Observation Elective	5 2 3 5	Educational Psychology 6. Ethics Elective	3 5 5

*Electives must be selected with reference to the subject or subjects which the student is preparing to teach. At least nine quarters should be devoted to the major subject, and six quarters to the minor subject.

This course may be completed in four college years of three quarters each, or in three years of four quarters each. In either case it represents one hundred and forty-four weeks of college work. Graduation from a first grade high school, or equivalent, is the requirement for entrance.

Two year Course for the Training of Elementary School Teachers

Diploma. Graduate in Pedagogy.

FIRST YEAR		SECOND YEAR	
Educational Psychology 1.	2	Principles of Teaching 1.	3
Geography and Methods	5	General Methods 1.	2
Public School Music	5	History of Education 1.	3
Public School Drawing	3	School Organization 1.	2
Rural Education	3	Observation or Practice Teaching	3
		Elective	2
Educational Psychology 2.	2	Principles of Teaching 2.	3
Arithmetic and Methods	5	General Methods 2.	2
Grammar and Methods	5	History of Education 2	3
Reading and Methods	5	School Organization 2	2
		Observation or Practice Teaching	3
		Elective	2
Educational Psychology 3.	3	General Methods 3.	2
History and Methods	5	History of Education 3	2
Agriculture and Methods	5	School Organization 3.	2
Educational Hygiene	5	Observation or Practice Teaching	3
		Elective	5

As will be noted from the above, this course may be completed in six quarters of twelve weeks each. The requirement for entrance is graduation from a first grade high school, or equivalent.

All who have had two or more years of high school work are eligible to admission to the Summer School classes. All teachers in service are also admitted in the Summer Quarter by special direction of the State Department of Education.

DESCRIPTION OF COURSES

Educational Psychology

DEAN DAVISON, PROFESSOR GRAY AND
ASSISTANT PROFESSOR WILSON

Educational Psychology 1. Human Behavior. (Fall) 2 Hrs.
T., Th. Fall quarter.

Educational Psychology 2. Psychology of Common Branches. 2 Hrs.
T., Th. (Winter)

Educational Psychology 3. Paidology. (Spring) 3 Hrs.
M., W., F. Spring quarter.

These are elementary courses, open to all Freshmen, and are designed to lay a foundation for all succeeding educational work. While the work of the three quarters is sequential and should be taken as outlined; it is offered in three units, any one of which may be taken separately if the student shall read the preceding texts and references.

Educational Psychology 4. The Learning Process. (Fall) 2 Hrs.
T., Th.

Educational Psychology 5. Psychology of H. School Subjects I. 2 Hrs.
T., Th.__(Winter)

Educational Psychology 6. Psychology of H. School Subjects II. 2 Hrs.
T., Th.__(Spring)

Courses 4, 5 and 6 are intended for high school teachers but are also open to students who have a working knowledge of psychological principles.

School Organization

DEAN DAVISON

School Organization 1. Class Room Management. (Fall) 2 Hrs.

School Organization 2. School Government and Discipline. (Winter) 2 Hrs.

School Organization 3. School Law and Course of Study. (Spring) 2 Hrs.

Although the work is planned for three consecutive quarters, any one may be selected by special students prepared to take the work. T., Th.

School Administration

DEAN DAVISON

School Administration 1. School Systems and Agencies. (Fall) 2 Hrs.
Study of existing school systems and the relations of

the various agencies at work; comparative school legislation, with attention to Ohio; school management, financial problems, buildings and furnishings. T., Th.

School Administration 2. Secondary Education. **2 Hrs.**

Special study of courses of study, selection of teachers, reports, grading and records. T., Th.

School Administration 3. Vocational Education. (Spring) **2 Hrs.**

T., Th.,

History of Education

DEAN DAVISON

History of Education 1. Before the Middle Ages. (Fall) **3 Hrs.**

History of Education 2. During the Middle Ages. (Winter) **2 Hrs.**

History of Education 3. Modern Times. (Spring) **3 Hrs.**

History of Education 1, 2 and 3 are required of Seniors in both courses in education, but the outside readings are adjusted to the special interests of both classes of students. Open to Liberal Arts students who have had Psychology. M., W., F.

Principles of Elmentary Teaching

ASSISTANT PROFESSOR WILSON

Principles of Teaching 1. The Educative Process. (Fall) **3 Hrs.**

Principles of Teaching 2. The Teaching Process. (Winter) **3 Hrs.**

Elementary. A study of the principles of teaching based on psychology. The work is centered about the recitation and school room practices. M., W., F.

Principles of Secondary Education

DEAN DAVISON

Principles of Education 1. Principles and Problems. (Fall) **3 Hrs.**

Principles of Education 2. Principles and Problems. (Winter) **3 Hrs.**

Principles of Education 3. Principles and Problems. (Spring) **3 Hrs.**

The principles of education founded upon psychology, biology and sociology are studied to final working basis. The dogmatical is not attempted, but a rational view-point towards present educational problems is emphasized. Open to Liberal Arts students who have had psychology, and who elect history of education. M., W., F.

Methods of Teaching

DR. DAVISON AND ASSISTANT PROFESSOR WILSON

Methods of Teaching 1. General. (Elementary.) (Fall) 2 Hrs.

Methods of Teaching 2. General. (Elementary.) (Winter) 2 Hrs.

Methods of Teaching 3. General. (Elementary.) (Spring) 2 Hrs.

A careful study of the value of method in the educative process, and the methods suitable to the different grades and how they should be modified. T., Th.

Methods of Teaching 4. General. (High School.) (Fall) 3 Hrs.

This course is a study of a series of phases of the scientific methods of presenting high school subjects and checking on the results. M., W., F.

Methods of Teaching 5. Special. (Elementary.) 5 Hrs.

The various elementary branches listed in the "Two Year" schedule are taken up with a view to gaining advanced academic knowledge and an acquaintance with the more improved methods of teaching them. Selected texts in both subject matter and methods are made the basis in each branch.

Methods of Teaching 6. Special. (Secondary.) (Winter) 3 Hrs.

Students taking this course will be divided into groups according to the subjects they are preparing to teach. Each student must prepare a thesis on the better methods of teaching in his chosen field. The material for this study will be based upon prescribed library readings, a practical study of the methods used by the instructors in the preparatory department, and local high school, and the counsel of the professor in charge. M., W., F.

Public School Drawing

PROFESSOR LONG

This is an elementary course based upon well established principles of expressing thought and action by symbols. No special talent is required to take this course, as the principles may be worked out mechanically. Required of all students wishing a diploma in Education. Given in Fall and Summer quarters. Three hours credit.

Public School Music

PROFESSOR KILLEEN

This course includes a thorough training in the fundamentals of music, frequent drill in sight singing, and careful provision for the teaching of music in all grades. Special attention is given to methods of instruction and the treatment of the child voice at all stages of development.

No extra charge for this special training in the music department. Fall or Summer quarters. Three hours credit.

Hygiene

DR. DAVISON AND ASSISTANT PROFESSOR WILSON

Hygiene 1. Health and Sanitation. (Spring) **5 Hrs.**

This is a composite course comprising health work in the school including that of the teacher and pupils; a theoretical consideration of the intimate relation existing between mental and physical and moral growth. Prescribed readings, lectures, surveys. Open to all students in the School of Education who are prepared to carry the course.

Hygiene 2. Educational Hygiene. (Winter) **5 Hrs.**

This course is pursued by Seniors taking the training of High School teachers. It includes health sociology, rural school health administration, medical supervision, school sanitation, play and recreation, and the teaching of hygiene.

The Observation of Teaching

Through the co-operation of the Ada Public Schools and the preparatory department of the University this work is accessible to all. Only a limited number, however, can be accommodated at one time, and special arrangement must be made as early as possible. It is advantageous to take the work daily, and attend a conference conducted by a training teacher. Credit is based upon attendance at the class, the weekly conference, and the nature of the reports. Three credit hours a quarter.

Practice Teaching

The cadet teachers train for the elementary work in the public schools. Those planning for secondary work teach in the preparatory department. As in Observation, only a limited number can be accommodated at once, and special arrangement must be made through the Dean. All work must be done by lesson plans under the immediate direction of the regular teacher in charge, and supervised by a training teacher. Credit is given to those only who show evidence of efficiency. The work is regarded as laboratory study, and only one hour a day will be recognized. Credit, three hours a quarter.

Full information regarding all elective courses, as well as the courses in English, Biology, Bible, General Psychology, Ethics, Sociology, etc., will be found elsewhere in this catalog in the description of the courses given in the College of Liberal Arts.

The Summer Quarter

The work of the Summer School is carefully organized and meets all the requirements of the State Dept. of Education.

For the summer of 1922, the work will be arranged to accommodate, first, those who wish to meet only the legal requirements; and, second, those who desire to complete a course leading to a diploma and state certificate. On the completion of the Elementary Teachers' Course of ninety-six term hours, "Certificates of Professional Instruction" are issued. Students desiring full collegiate credit must register at the beginning the summer quarter and continue their work during the entire quarter.

Lectures by eminent educational leaders of the country are regular features of the Summer School, and are free to the students of the University of whatever department.

Besides the regular academic and collegiate instructions, classes are formed in all the subjects prescribed by the State Department of Education for professional training and also in Home Economics and Rural Education. Arrangements have also been made for two full courses in primary methods, including plays, games, and so forth.

For further particulars send for a Summer School Bulletin.

Ohio Northern Educational Society

The Ohio Northern Educational Association holds regular weekly meetings, at which addresses and lectures are given and papers on subjects of vital importance to every teacher are read and discussed. Membership in this society is open to all students of the College of Education.

Employment Bureau

This Bureau assists Ohio Northern students in securing teaching positions. In the past year many graduates and former students were brought into direct communication with school officers in search of superior teachers. A number of superintendents and principals owe their present positions to direct calls to this bureau. The demand for teachers of science, agriculture, physical training and manual training was in excess of the properly qualified candidates.

No charge is made for the services of this bureau, but only teachers of merit will be registered.

COLLEGE OF ENGINEERING

CARROLL RUSSELL ALDEN, DEAN

ADMISSION

Fifteen units of high school work are required for admission. Units will be accepted without question from first-grade high schools, academies, or preparatory schools. The acceptance of work from schools of lower rank will be determined by the entrance committee. To those who cannot furnish certified credits, entrance examinations will be given the first day of each quarter. Those not desiring to earn a degree may enter any department and pursue the studies they choose, if on consultation, the head of the department is satisfied that they have sufficient prepaation to pursue the work successfully. Such applicants are classified as special students. Upon completion of their work, a certificate, showing the course of study pursued and the amount of work covered, will be presented them.

The official form for "Certificate of Entrance," which may be had on application to the Entrance Examiner, should be used in all cases, in order to insure the presentation of necessary information.

Admission to Advanced Standing

A liberal policy is pursued in giving credit for work done in other colleges. Some credit also is given for practical experience in draughting and field work acquired previous to matriculation, upon receipt of a satisfactory statement from the employer, stating the nature of the work and length of service. Statements must include postoffice address as well as signature of employer.

Time to Enter

In view of the fact that each course is offered from two to four times a year and that numbers of classes are formed each quarter, students may enter at almost any time and find the work they desire. The best time to enter, however, is at the beginning of the quarter. See calendar.

Aim in Arrangement of Courses

The courses offered, recently revised to meet the demands of the reconstruction period, aim at laying a groundwork of sound theory and, at the same time, imparting such instruction in the usual professional practice as shall equip the student for efficiency in any position to which he may be called. The technical branches are taught by scientifically trained teachers of experience in practical engineering.

By omitting subjects not directly bearing on Engineering, the **time required in other technical schools for completing the work leading to a degree is shortened in Ohio Northern.** An engineering degree is thus placed within the reach of thousands of young men whose circumstances will not permit them to spend the long period of four years in preparing for a vocation.

To accommodate those desiring the culture gained through the study of the "liberal arts and sciences" in addition to the thorough technical training, the College of Liberal Arts is open to all Engineering students free of extra tuition.

Options

With the advice and consent of the professor in charge, certain subjects may be elected in the various courses to take the place of such as may not appeal to the student in his chosen vocation.

CIVIL ENGINEERING

This is the parent stem of all engineering pursuits, and in its broader sense includes all branches of enginering. Many of its former departments have grown into separate professions, yet there still remains a broad and important field, offering greater opportunities than ever before. No sharp line of distinction can be drawn between the provinces of the civil, electrical, and mechanical engineers. This is evidenced by the large number of subjects studied in common by all the students of the various engineering departments.

The subjects given in the department of Civil Engineering are divided into five groups. **Every candidate for a B. S. in C. E. degree must take all the subjects in Group I.** The candidate may then select any one of the remaining four groups in which to complete his work. It will be noticed that in each of the remaining four groups appears an item, "elective." The student may choose these from any of the groups, or from one of the other engineering departments, or with the consent of the Dean, from one or more of the other colleges of the University.

Practically all the local improvements are under the direct supervision of the College of Engineering. Many thousands of dollars have been expended the past few years for street paving, macadamizing, sewerage, etc., the major portion of the engineering work being done by the students themselves.

The college is supplied with high-grade instruments and appliances necessary for first-class instruction and practice. The laboratories are well equipped, the draughting room large and modern, the scientific library excellent.

Schedule

FIRST QUARTER

Col. Alg. I.	5
Trigonometry	5
Mech. Drawing I.	4
Chem. I.	4
Gym.	1

THIRD QUARTER

Col. Alg. III.	3
Calc. I.	4
Mech. Drawing III.	2
Anal. Geom. II	4
Chem. III.	4
Gym.	1

FIFTH QUARTER

Calc. III.	4
Physics VI.	5
Field Engr.	5
Group Options	5
Gym.	1

SEVENTH QUARTER

Mech. of Mtls. II.	3
Stresses I.	4
Graphics	5
Hyd. II.	4
Test Mtls.	2

NINTH QUARTER

Law of Contracts	5
Highways	3
Masonry	3
Group Options	7

SECOND QUARTER

Col. Alg. II.	3
Anal. Geom. I.	4
Mech. Drawing II.	2
Chem. II.	4
Physics IV.	5
Gym.	1

FOURTH QUARTER

Calc. II.	4
Desc. Geom. I.	5
Physics V.	4
Plane Surv.	5
Gym.	1

SIXTH QUARTER

Mech. of Mtls. I.	5
Hyd. I.	4
Geol.	3
R. R. I.	5
Gym.	1

EIGHTH QUARTER

Stresses II.	4
Br. Des. I.	3
Rein. Conc. I.	3
Water Supply	5
Group Options	4

TENTH QUARTER

Bridge Design II.	3
Foundations	3
Masonry Design	3
Estimates	2
Group Options	7
THESIS	

Total Required	157
Group Options	23
	180

Physical Education credits exclusive of 180 required hours.

Civil Engineering Groups

REQUIRED

Group I

MATHEMATICS

Coll. Alg. I. II. III.	11
Trigonometry	5
Analytic Geometry I, II	8
Descriptive Geometry I.	5
Calculus I, II, III	12

SCIENCE

Chemistry I, II, III	12
Physics IV, V, VI	14
Geology	3

DRAWING

Mechanical Drawing I, II, III	8

APPLIED

Graphics	5
Stresses I, II	8
Bridge Design I, II	6
Mechanics of Materials I, II	8
Hydraulics I, II	8
Water Supply I,	5
Masonry	3
Masonry Design	3
Reinforced Concrete I,	3
Foundations	3
Testing Materials	2
Highway Engineering	3
Law of Contracts	5
Estimates	2
Plane Surveying	5
Field Engineering	5
Railroad Surveying	5
	157

OPTIONS

Group II

GENERAL

Railroads II	3
Reinforced Concrete II	3
Elementary Elec. Machines I	5
Designs of Dams	3
Irrigation and Drainage	3
Electives	6
	180

Group III

SANITARY

Sewerage	3
Reinforced Concrete II	3
Bacteriology	4
Chemistry	5
Electives	8
	180

Group IV

STRUCTURAL

Descriptive Geometry II	2
Mill Buildings	3
Higher Structures	5
Reinforced Concrete II	3
Metallurgy	2
Electives	8
	180

Group V

MATHEMATICAL

Least Squares	2
Geodesy	2
Astronomy	2
Field Astronomy	2
Differential Equations	3
Analytic Mechanics	5
Electives	7
	180

ELECTIVES—Electives may be chosen from the other groups or from the other Engineering Departments or from the Colleges of Law, or Liberal Arts, or Commerce. The electing of such subjects must meet the approval of the Dean.

ELECTRICAL ENGINEERING

The courses offeed in this branch of Engineering require a thorough study of theoretical and applied electricity.

The first half of the prescibed study is, in the main, the same as that in the Civil and Mechanical Engineering curriculums, including the fundamental engineering sciences, mathematics, drawing and surveying. The last half consists of courses of study in stresses, graphics, strength of materials, hydraulics, steam engines, advanced study in the theory of electricity, a large amount of laboratory research and experiment, shop tests, plant testing, meter testing, machine drafting and designing, power plant and wiring layouts, and a thorough course in electrical machine contruction.

The theoretical work is supplemented with practical application in the laboratory and in the design of electrical machinery. Throughout, the student is drilled in the solution of many numerical problems with a view to a firm grasp of the theory.

In addition to an excellent Physical Laboratory, the department has a well-equipped Electrical Laboratory. An oil engine-driven electric lighting system has been installed for lighting the University buildings and grounds, and for driving the ventilating motors. The University power plant comprises one gas engine unit and semi-Diesel oil unit. To prevent interruption to the service, storage batteries have been installed. These batteries are available for test, and form an important addition to the laboratory equipment. In the laboratory, both direct and alternating currents are available for testing purposes.

The recent enlargement of the laboratory and the additional equipment have made it possible to accommodate a large number of students.

Schedule

FIRST QUARTER	
Col. Alg. I.	5
Trigonometry	5
Mech. Drawing I.	4
Chemistry I.	4
Gym.	1

SECOND QUARTER	
Col. Alg. II.	3
Anal. Geom. I.	4
Mech. Drawing II.	2
Chemistry II.	4
Physics IV	5
Gym.	1

THIRD QUARTER

Col. Alg. III.	3
Anal. Geometry II.	4
Calculus I.	4
Physics VI.	5
Gym.	1

FOURTH QUARTER

El. Elec. Mach. I.	4
Desc. Geom. I.	5
Calculus II.	4
Physics V.	4
Gym.	1

FIFTH QUARTER

Elec. Machines I.	5
Calculus III.	4
Chemistry III.	4
Thermo	5
Gym.	1

SIXTH QUARTER

Elec. Mach. III.	5
El. Elec. Mach. II.	4
Mech. of Mtls. I.	5
Hyd. I.	4
Gym.	1

SEVENTH QUARTER

Elec. Machines II.	3
Graphics	5
Hydraulics II.	4
Mech. of Mtls. II.	3
Mach. Design I.	4

EIGHTH QUARTER

E. Machines V.	5
Telephone Eng.	4
Plane Survey	5
Mach. Design II.	4
Seminar	1

NINTH QUARTER

Elec. Machines IV.	4
Elec. Machines VII.	4
Elec. Machines VI.	4
Steam Turbines	4
Diff. Equations	3

TENTH QUARTER

Electric Circuits	2½
Electric Railways	2½
Adv. A. C.	5
Elec. Mach. IX-a	4
Elec. Mach. IX-b	4
THESIS	

Physical Education Credits exclusive of 180 required hours.

MECHANICAL ENGINEERING

Mechanical Engineering deals with the transformation and transmission of energy, and with the theory and construction of mechanism and machinery.

The first half of the curriculum consists of the basic engineering studies. In the latter half an exhaustive study is made of all phases of heat engineering, together with the design, erection and maintenance of power plant apparatus. Thorough training is given in machine drafting, machine design, thermodynamics, steam engines, steam boilers, gas engines, electrical machinery and steam power plants.

The University has its own oil-engine-driven lighting plant and a central steam heating plant, lighting and heating all the University buildings. This equipment is installed with special convenience for making tests on boilers, heating apparatus and power apparatus. In addition the central heating and lighting plant of the Ada Heating and Light Co., with its equipment of Corliss engines, high pressure cold and hot water pumps, boilers, et cetera, is open to the students for inspection and test.

A well equipped machine shop recently added to the laboratory outfit, gives opportunity for training in the use of tools and general machine shop practice.

The University, because of increasing power demands, contemplates building in the near future a modern power plant equipped with oil and gas engines of the latest type, with a view to making it a part of the mechanical laboratory, in which tests for efficiency and fuel consumption may be easily and quickly made. The work of installing will be done largely by student help, who thus will get practical experience in moving and erecting engines, switch-boards, storage batteries, et cetera. Since the plant will be operated by student help, additional practical experience will be gained.

FIRST QUARTER

College Algebra I.	5
Trigonometry	5
Mech. Drawing I.	4
Chemistry I.	4
Gym.	1

SECOND QUARTER

College Algebra II.	3
Anal. Geom. I.	4
Mech. Drawing II.	2
Chemistry II.	4
Physics IV.	5
Gym.	1

THIRD QUARTER

College Algebra III.	3
Calculus I.	4
Mech. Drawing III.	2
Anal. Geometry II.	4
Physics V.	4
Gym.	1

FOURTH QUARTER

Calculus II.	4
Desc. Geometry I.	5
Plane Surveying	5
Chemistry III.	4
Gym.	1

FIFTH QUARTER

Calculus III.	4
Physics VI.	5
Thermodynamics	5
Elem. Elec. Mach. I.	4
Gym.	1

SIXTH QUARTER

Mech. of Matls. I.	5
Hydraulics I.	4
Steam Engines	5
Elem. Elec. Mach. II.	4
Gym.	1

SEVENTH QUARTER

Mech. of Mtls. II.	3
Stresses I.	4
Graphics	5
Hydraulics II.	4
Steam Boilers	3

EIGHTH QUARTER

Anal. Mech.	5
Mach. Design I.	4
Steam Turbines	4
Steam Power Plants	5

NINTH QUARTER

Mech. Lab. I.	3
Gas Engines	4
Heat and Vent. and Refrig.	5
Metallurgy	2
Mach. Design II.	4

TENTH QUARTER

Mech. Lab. II.	4
Steam Eng. Design	5
Gas Eng. Design	5
Mach. Design III.	4
THESIS	

OPTIONS—Mill Building (3) and Foundations (3) may be substituted for either Gas or Steam Engine Design in the TENTH QUARTER.

Physical Education Credits exclusive of 180 required hours.

CHEMICAL ENGINEERING

The aim is to thoroughly acquaint the student with the fundamental principles of chemical science, and to afford him a complete drill in analysis and in the preparation of inorganic and organic products, and thus to enable him to attack and solve the many chemical and metallurgical problems evolving from the rapid development of the industries.

Schedule

FIRST QUARTER

Col. Algebra I.	5
Trigonometry	5
Mech. Drawing I.	4
Chemistry I.	4
Gym.	1

SECOND QUARTER

Col. Algebra II.	3
Anal. Geom. I.	4
Mech. Drawing. II.	2
Chemistry II.	4
Physics IV.	5
Gym.	1

THIRD QUARTER

Col. Algebra III.	3
Calculus I.	4
Mech. Drawing. III.	2
Analytic Geom. II.	4
Chem. III.	4
Gym.	1

FOURTH QUARTER

Calculus II.	4
*Descrip. Geom. I.	5
Physics V.	4
Chemistry IV.	5
Gym.	1

FIFTH QUARTER

Thermo.	5
Chemistry V.	5
Physics VI.	5
Elem. Elect. Mach. I.	4
Gym.	1

SIXTH QUARTER

Mech. of Mat. I.	5
Hydraulics I.	4
Chemistry VI.	5
Elem. Elect. Mach. II.	4
Gym.	1

SEVENTH QUARTER

Mech. of Mat. II.	3
Hydraulics II.	4
Chemistry VII.	5
Graphics	5

EIGHTH QUARTER

*Elec. Mach. I.	5
Chemistry VIII.	5
Sewerage	3
Water Supply	5

NINTH QUARTER

Chemistry IX.	5
Metallurgy	2
*Steam Engines	4
*Elect. Mach. II.	4
*Mach. Design I.	4

TENTH QUARTER

Estimates	2
Geology	3
Mineralogy	4
Chemistry X.	5
*Storage Bat.	4
THESIS	

Twenty-five hours of the subjects marked with an * may be made optional from the following courses:

Biology I.	3
Biology II.	3
Economics	3
Contracts	5
Scient. Manaf.	4
Plane Survey.	5
Mechanical Lab.	3
Calculus III.	4
Anal. Mech.	5
Steam Eng.	5
Heat, Vent., Refrig.	5
Spanish	5
German	5

Physical Education Credits exclusive of 180 required hours.

STRUCTURAL DRAFTING

Many young men for reasons, financial or otherwise, do not aspire to the longer courses leading to a degree, but would gladly avail themselves of the opportunity to prepare themselves to enter the busy "Structural Field." For such this schedule has been arranged, on completion of which a certificate will be granted, which should prove to be a valuable passport into the modern drafting room. There is no preparation other than the grades necessary to enter this course.

Schedule

FIRST QUARTER

	Hours
Algebra I.	5
English Composition	5
Mechanical Drawing I.	4
Geometry I.	5

SECOND QUARTER

Algebra II.	5
Geometry II.	5
Preparatory Rhetoric I.	5
Mechanical Drawing II.	2
Physics I.	5

THIRD QUARTER

	Hours
Algebra III.	5
Geometry III.	5
Mechanical Drawing III.	2
Descriptive Geometry I.	5
Business English	4

FOURTH QUARTER

Algebra IV.	5
Machine Drawing I.	4
Descriptive Geometry II.	2
Graphic Statics	5
Trigonometry	5

DEGREES

The University is empowered to grant the customary scholastic degrees.

The management accepts grades of equal value from other institutions of learning, yet the applicant for a degree is required to do a reasonable portion of his work here. No diploma is granted on grades made wholly in other institutions.

One hundred and eighty credit hours are required for graduation, two hours of field or laboratory work counted one credit hour.

THESIS

Every candidate for a degree must prepare a thesis upon some technical or scientific study, which lies within the field of the degree sought, and may be either designing, construction, testing or research; the study to be selected by the professor in charge and the subject to be announced not less than twenty-four weeks preceding graduation.

The form of the finished thesis must be in accordance with the requirements of the department and the library and be deposited with the Dean at least four weeks before the conferring of the degree .

SEMINAR

Weekly conferences are held for the purpose of discussing current engineering events and topics.

STUDENT TECHNICAL ORGANIZATIONS

The Ohio Northern Chapter of the American Association of Engineers holds bi-monthly meetings. All engineering students are eligible to membership. Proceedings of the American Association of Engineers are received and discussed.

The Ohio Northern Society of Chemical Engineers holds bi-monthly meetings. All students of Chemical Engineering are eligible for membership. Technical papers pertaining to chemical engineering are read and chemical and metallurgical subjects are discussed.

The Ohio Northern Branch of the American Institute of Electrical Engineers holds bi-monthly meetings. All electrical students are eligible to membership. At these meetings, original papers and papers printed in the proceedings of American Institute of Electrical Institute are read and discussed.

The Ohio Northern Chapter of Mechanical Engineers hold meetings bi-monthly. All students of Mechanical Engineering are eligible to membership. New developments in the field of mechanical engineering are investigated and discussed.

In honor of George Washington, "Surveyor, Soldier, Statesman," the societies named above devote the week of February 22, to a series of Technical Lectures, Annual Exhibit, Annual Banquet, etc.

EXPENSES

See earlier pages of this bulletin.

DESCRIPTION OF COURSES

For description of courses and daily schedule of classes see special Engineering Bulletin.

COLLEGE OF LAW

William Price Henderson, Dean

When Organized

The College of Law was organized as a department of the Univerity in 1885, and numbers among its alumni and former students many of the most prominent lawyers of Ohio and other states. Its graduates have been uniformly successful as applicants for admission to the bar and as practitioners.

Its Purpose

The aim of its founders was to afford an opportunity for students of limited means, to secure a collegiate training in law, and by connection with the University to offer to them the added opportunity of obtaining the general education indispensable to the successful study and practice of law. With this in mind, tuition rates are made very reasonable, and every effort is put forth to accommodate the student of limited means, but earnest purpose.

The courses are planned primarily to train students for the practice of law, but they may advantageously be pursued by anyone desiring to secure a knowledge of the principles and history of law, either as part of a liberal education, or as part of the foundation of a business career, and special attention is given to the needs of such students.

In the training of students for the practice of law, the college has four chief aims:

(a) To give a thorough, systematic grounding in the history and fundamental principles of the law.

(b) Subordinately, but as an essential feature of the work of the college, to give special instruction preparatory to examinations for admission to the bar. This special instruction consists of a thorough quiz and review of the whole course, and covers a period of about three months. It is given twice each year before June and December bar examinations and is open to all students, whether they have taken the regular courses in this College of Law or some other Law School. Many students who have studied under a preceptor in an office avail themselves of this instruction.

(c) To impart a working knowledge of statute law and court practice and procedure, to the end that the young lawyer may intelligently and readily serve his clients.

(d) To inculcate the principle of legal ethics and of the lawyer's public responsibility, to the end that the young lawyer may take his proper place as a leader in his community.

Equipment

The College of Law occupies commodious rooms in the new Lehr Memorial building. Its good working library is now larger and better suited to the work of the College than ever before in its history, several important and valuable sets, including the American Digest System and Lawyer's Reports Annotated, both series, and a set of the best edition of the United States Supreme Court Reports, having been added recently.

Outline of Courses

(In the following outline, the figure preceding the name of the course indicates the number of the course; that following, the number of credit hours given for the satisfactory completion of the course. A credit hour is given for the satisfactory completion of work requiring one class period a week for one quarter.)

FIRST YEAR

Fall Quarter	Winter Quarter	Spring Quarter
1. Elementary Law I.--------5	2. Elementary Law II. -------5	8. Agency -------5
3. Personal Property, including Sales ---------5	6. Bailments -----5	9. Partnership ----5
4. Contracts I. ----5	7. Torts ---------5	10. Domestic Relations --------5
	5. Contracts II. ---5	11. Criminal Law---3
		12. Criminal Procedure -------3

SECOND YEAR

Fall Quarter	Winter Quarter	Spring Quarter
13. Suretyship -----5	17. Wills ---------5	18. Administration of Estates ----5
14. Insurance ------5	19. Damages ------3	21. Pleading II.-----5
15. Private Corporations ----5	20. Pleading I.------5	23. Real Property II. ----------5
16. Negotiable Instruments ---5	22. Real Property I.-5	24. Municipal Corporations ----5

THIRD YEAR

Fall Quarter	Winter Quarter	Spring Quarter
26. Equity I. ------5	27. Equity II.------5	29. Constitutional Law II. ------5
30. Evidence ------5	28. Constitutional Law I.-------5	33. Quiz A---------5
25. Brief Making and Use of Law Books --------3	32. Quiz A---------5	26. Quiz B---------5
31. Quiz A --------5	35. Quiz B---------5	
34. Quiz B --------5		

Lectures are given on legal ethics, legal history, international law and court practice.

Method of Instruction

Each subject scheduled in the course of study requires for its completion five recitation periods of one hour each, per week, throughout the quarter, except where otherwise indicated.

The instruction is based upon the text assigned for study, combined, in the second and third years, with a judicious use of cases, and completed, in the third year, with a thorough "quiz," under the personal instruction of the dean, preparatory to examinations for admission to the bar.

The recitation includes a thorough questioning of the student upon the text and cases studied and infomal discussions by instructor and students, with constant reference to the statutes and leading cases of the jurisdiction, the whole exercise aiming to combine a knowledge of the history and fundamental principles of the law with its actual application to cases, thus giving the student a thorough grasp of the law, not only in its development, but as it now exists.

Moot Court

Moot Cout, under the direct supervision of the faculty, forms a regular part of the work, in which each student is expected to participate. He is required to get out all the papers necessary for the case, and to follow the customary order of procedure. Pleadings, writs, motion and journal entries, together with the principles of proceeding in appeal and error, are supervised in detail; juries are chosen, witnesses examined, motions heard, and everything is made to conform as nearly as possible to the practice of the regular courts.

Admission

Students may enter the College at anytime, but, in order to receive full credit toward graduation, for work done, must enter at the beginning of a quarter.

At the beginning of the college year 1917-1918, the following rules as to the admission to the College became effective:

Candidates for a degree will be required, upon their application for admission, to furnish satisfactory evidence of graduation from a first-grade high school, or from a school of equivalent standing.

Students not candidate for a degree may enter upon proving, to the satisfaction of the Dean, that they possess such general education as will enable them to pursue the study of law intelligently. Special effort will be made, as in the past, to offer such students every reasonable advantage, and special attention will continue to be given to the needs of special students who are preparing for the examinations for admission to the bar.

Preliminary to Bar Examination

The preliminary literary work required for admission to the Bar examination may be taken in the University under the regular law tuition, and a certificate showing the completion of the course in the Preparatory School admits the student to the Bar examination in this state, without a preliminary examination.

Graduation

The degree of Bachelor of Laws is conferred on students who have completed the prescribed course of study.

The following conditions as to graduation will be enforced:

Credit toward graduation will be given for not more than one year's study of law under the actual tuition of a reputable practicing attorney at law. Such study must be proved by the certificate of such attorney at law not only as to the length of time spent in study but as to the subjects studied, the text or case books which formed the basis of the study, and the quality of the work done by the student.

Credit toward graduation will be given for not more than two year's study of law in residence in any reputable law school in the United States maintaining a three years' course of study, and proper credit will be given for study in residence in any reputable law school in the United States maintaining a course of study less than three years in length.

No credit will be given for correspondence school work.

No student will be graduated who has not studied law for a period equivalent to nine college quarters, of which time a period equivalent to at least six quarters must have been spent in residence at some reputable law school, and of which at least the last three quarters must have been spent in residence in this College of Law.

Students not candidates for a degree may select from the courses offered such work as they desire, with the approval of the dean, not to exceed a maximum of 20 credit hours per quarter.

The summer quarter is a full quarter of twelve weeks. Full courses in the College of Law are offered under the instruction of members of the regular faculty, and full credit is given for work done in this quarter. This quarter offers an excellent opportunity for teachers, and others who are unable to be in attendance during the remainder of the year, as well as for regular students who wish to complete their course in less than three calendar years, or to make special preparation for bar examinations. Quiz classes, in preparation for such examinations, are formed regularly as part of the work of this quarter, and classes are formed in such of the other regular courses as may be necessary, to meet the demands of students.

Expenses

For expenses see earlier pages of this bulletin.

COLLEGE OF PHARMACY

RUDOLPH HENRY RAABE, DEAN

Advantages Offered Here

Under the Laws of Ohio, a School of Pharmacy in good standing is (1) one that demands for entrance the certificates of preliminary education issued by the entrance examiner of the State Board of Pharmacy; (2) that has a two-year course covering at last fifty weeks actual instruction occupying two school years with at least two months elapsing between the two years. Each school year must cover at least 250 clock hours of class room instruction and 350 clock hours individual laboratory work, and cover at least the work outlined in the "1913 Syllabus."

The College of Pharmacy of the Ohio Northern University, established in 1885, with constantly added facilities and enlarged plans, is preparing men and women to meet fully, not only the legal requirements, but also the increasing public demand for educated and trained pharmacists.

Practical and thorough courses are offered at the least expenditure of time and money; equipment, courses offered and facilities for work are modern.

Excellent opportunity for registered "Assistants," if graduates of a recognized college, who wish to review for examination as "Pharmacists."

Young women admitted on an equality with young men.

The Ohio Board of Pharmacy grants recognition to the graduates of the O. N. U. College of Pharmacy.

Standardized courses means that our graduates are recognized in nearly every state; full recognition in Pennsylvania, New York, and Indiana.

Laboratories

In addition to the general biological, chemical and physical laboratories of the University the College of Pharmacy has two Pharmaceutical and Dispensing laboratories. The desk arrangement is such as to afford the student every facility for complete and thorough work, and the tables are supplied with an entire outfit of apparatus, including storing closet.

The laboratory for practical chemical work is equipped with all the accessories necessary for chemical analysis and synthesis. In this laboratory the student is required to perform a satisfactory amount of analytical and synthetical work under the personal attention of the Professor of Chemistry and an able assistant.

The Miscroscopical Laboratory is equipped with fine instruments for individual microscopic investigation.

Requirements for Admission

Applicants for admission to the regular course leading to the degree of Graduate in Pharmacy must present a certificate of preliminary education from the Entrance Examiner of the State Board of Pharmacy.

The State Board of Pharmacy announces as follows:

"The following preliminary educational credentials shall be sufficient: On and after January 1, 1920, a diploma from a legally constituted high school, normal school or academy, issued after at least four years of study." Persons who actually entered recognized colleges prior to Jan. 1, 1920, will be permitted to continue their courses without procuring another entrance certificate.

Those wishing to pursue the three-year's course of study leading to the degree of Pharmaceutical Chemist (Ph.C.) must present an entrance certificate from the State Examiner.

Persons wishing to pursue the four-year course of study leading to the degree of Bachelor of Science in Pharmacy (B.S.) must present an entrance certificate from the State Examiner.

Students from other recognized Colleges of Pharmacy will be admitted to advanced standing upon satisfactory evidence that they have met all the requirements established by this college to attain such standing.

When to Enter

The College of Pharmacy opens on Tuesday, September 12, 1921, and continues thirty-two weeks, with an intermission at Christmastide.

The student shall enter the College of Pharmacy on opening date and attend the introductory exercises unless excused by proper authorities. To enter the regular courses the student must present an entance certificate from the State Examiner, matriculate, and pay tuition and fees as stated elsewhere in this catalogue.

Special students may enter at any time upon recommendation of the Dean and approval of the President.

Students who are entitled to advanced standing will enter at the time arranged by the Dean.

Schedules

Degree: Pharmaceutical Graduate

FIRST YEAR

Physiology	5	General Materia Medica	1
General Inorganic Chem. I.	4	Pharmaceutical Botany I.	5
Pharmaceutical Arithmetic	5	General Inorganic Chem. II.	4
Pharmaceutical Technique	2	Pharmaceutical Latin	3
		Posology	1

Pharmaceutical Botany II.	5
General Inorganic Chem. III.	4
Pharmacy I.	5

SECOND YEAR

Pharmacognosy I.	5	Pharmacognosy II.	5
General Organic Chem. I.	5	General Organic Chem. II.	5
Pharmacy II.	5	Pharmacy III.	5

Materia Medica II.	5
Quantitative Analysis I.	5
Pharmacy IV.	5

At least 1308 clock-hours are required to complete this course, 540 clock-hours, in lectures and recitations, and 768 clock-hours in laboratory.

Degree: Pharmaceutical Chemist

FIRST YEAR

Physiology	5	General Materia Medica	1
General Inorganic Chem. I.	4	Posology	1
Pharmaceutical Arithmetic	5	Pharmaceutical Latin	3
Pharmaceutical Technique	2	General Inorganic Chem. II.	4
		Pharmaceutical Botany I.	5

Pharmaceutical Botany II.	5
General Inorganic Chem. III.	4
Pharmacy I.	5

SECOND YEAR

Pharmacognosy I.	5
General Organic Chem. I.	5
Pharmacy II.	5

Pharmacognosy II.	5
General Organic Chem. II.	5
Pharmacy III.	5

Materia Medica II.	5
Quantitative Analysis I.	5
Pharmacy IV.	5

THIRD YEAR

Materia Medica I.	5
Qualitative Analysis I.	5
Pharmacy V.	5

Materia Medica III.	2½
Toxicology	2½
Qualitative Analysis II.	5
Pharmacy VI.	5

Materia Medica Section (elective)	5
Organic Chemistry III.	5
Special Chemistry (elective)	5
Pharmacy VII. or elective	5

At least 1980 clock-hours are required to complete this course, 828 clock-hours in lectures and recitations and 1052 clock-hours in laboratory.

Degree: Bachelor of Science in Pharmacy

FIRST YEAR

Physics IX.	4
Biology 1.	3
German or French	5
General Inorganic Chem. I.	4

Biology II.	3
Physics X.	4
German or French	5
General Inorganic Chem. II.	4

Biology III.	3
German or French	5
Physics XI.	4
General Inorganic Chem. III.	4

SECOND YEAR

Physiology	5
General Organic Chem. I.	5
Pharmaceutical Arithmetic	5
Pharmaceutical Technique	2

General Materia Medica	1
Posology	1
Pharmaceutical Latin	3
General Organic Chem. II	5

Pharmaceutical Botany I.	5
Pharmaceutical Botany II.	5
General Organic Chem. III.	5
Pharmacy I.	5

THIRD YEAR

Pharmacognosy I.	5	Pharmacognosy II.	5	Materia Medica II.	5
Qualitative Chem. I.	5	Qualitative Chem. II.	5	Quantitative Chemistry I.	5
Pharmacy II.	5	Pharmacy III.	5	Pharmacy IV.	5

FOURTH YEAR

Materia Medica I.	5	Materia Medica III.	2½	Elective in Materia Medica Section	5
Elective Chemistry	5	Toxicology	2½	Elective Chemistry	5
Pharmacy V.	5	Elective Chemistry	5	Pharmacy VII.	5
		Pharmacy VI.	5		

At least 2652 clock-hours are required to complete this course, 1116 clock-hours in lectures and recitations and 1536 clock-hours in laboratory.

DESCRIPTION OF COURSES

Materia Medica Section

Physiology. **5 Hrs.**

A brief course in human physiology preparatory to the study of the action of drugs. The digestive, circulatory, respiratory and nervous systems are the chief subjects considered. Lecures and recitations, 36 hours. Laboratory 48 hours.

General Materia Medica. **1 Hr.**

In this course the student becomes acquainted with the general classification of drugs and medicines. Classification is based upon dynamics. Lectures and recitations, 12 hours.

Pharmaceutical Botany I. **5 Hrs.**

The aim of this course is to acquaint the student with the main group of plants, their characteristics, and economic importance. The course is progressive, beginning with the lowest types, and ending with the highest. Lectures and recitations, 36 hours. Laboratory, 48 hours.

Pharmaceutical Botany II. **5 Hrs.**

The cell, cell contents and general anatomy of the parts of the plants, such as root, stem, leaf, flower, fruit, and seed, are the subjects of this course. A few drugs from each classification will be considered. Lectures and recitation, 36 hours. Laboratory, 48 hours.

Posology. **5 Hrs.**

This is a brief course intended to familiarize the first year student with the science of dosage. Lectures and recitations, 12 hours.

Pharmacognosy I. **5 Hrs.**

In this course the student is taught how to identify, select, and value drugs miscroscopically. He will learn the offical names, definition, habitat, and constituents of each drug studied. Lectures and recitations, 36 hours. Laboratory, 48 hours.

Pharmacognosy II. **5 Hrs.**

This is a continuation of Pharmacognosy I. Attention will be given to preservation, adulteration and identification of powdered drugs. A liberal use of the compound miscroscope is required in this course. Lectures and recitatons, 36 hours. Laboratory 48 hours.

Materia Medica I. **5 Hrs.**

A course in inorganic Materia Medica. Special attention will be given to official names, physiological action and doses. The physical and chemical properties of these drugs will receive attention in so far as they influence their action. Lectures, recitations, 36 hours. Laboratory, 48 hours.

Materia Medica II. **5 Hrs.**

This is a course in organic Materia Medica (vegetable) The organic drugs will be classified according to their action upon the human body. Attention will be given to official names, constituents, action and dosage. Lectures and recitations, 60 hours.

Materia Medica III. **2½ Hrs.**

A course in inorganic Materia Medica (animal). These drugs will be classified zoologically. Attention wil be given to official names, definitions, sources, action and dosage. Lectures and recitations, 18 hours. Laboratory, 24 hours.

Toxicology. **2½ Hrs.**

A study in the principles of poisoning, classification of poisons, and effects of each class. Lectures and recitations, 30 hours.

Biological Assaying. **5 Hrs.**

Attention will be given to biological assaying methods and standardization of the U. S. P. drugs that are most satisfactory valued by this method. Lectures, recitations, 12 hours. Laboratory, 96 hours.

Bacteriology.

A course in pharmaceutical bacteriology will be offered in connection with the department of biology upon demand by a sufficient number of students.

Chemistry Section

General Inorganic Chemistry I. **4 Hrs.**

This is an introductory course in General Inorganic Chemistry. Chemical theory, atoms, molecules, valence, writing and naming chemical formulas, are the chief topics. Lectures and recitations, 36 hours. Laboratory, 48 hours.

General Inorganic Chemistry II. **4 Hrs.**

A brief course in general Inorganic Chemistry based upon the non-metals. Occurrence, preparation, physical and chemical properties and their combinations will be carefully studied. Lectures and recitations, 36 hours. Laboratory, 48 hours.

General Inorganic Chemistry III. **4 Hrs.**

A course in General Inorganic Chemistry based upon the metals. Their occurrence, preparation, physical and chemical properties and combinations will be carefully studied. Lectures and recitations, 36 hours. Laboratory, 48 hours.

Qualitative Analysis I. **5 Hrs.**

A course in inorganic Qualitative Analysis. Prerequisites: General Inorganic Chemistry I., II. and III. The greater portion of this course is devoted to laboratory practice.

Qualitative Analysis II. **5 Hrs.**

This is a continuation of Qualitative Analysis I.

General Organic Chemistry I. **5 Hrs.**

A study of the structure and constitutents of the carbon compounds; the hydro carbons and carbohydrates with many of the addition and substitution products. Lectures and recitations, 60 hours.

General Organic Chemistry II. **5 Hrs.**

This is a continuation of General Organic Chemistry I. Lectures and recitations, 24 hours. Laboratory, 80 hours.

General Organic Chemistry III. **5 Hrs.**

A continuation of General Organic Chemistry II.

Quantitative Analysis I. **5 Hrs.**

This work consists of Volumetric and gravimetric analysis; the determination of acidity and alkalinity; the analysis of organic and inorganic salts. Lectures, 12 hours. Laboratory, 96 hours.

Quantitative Analysis II. **5 Hrs.**

This is a continuation of Quantitative Analysis I.

Physical Chemistry. **5 Hrs.**

Industrial Chemistry. **5 Hrs.**

Special Chemistry. **5 Hrs.**

Under this head are grouped several electives, viz., analysis of drugs and chemicals, coke and coke, iron and steel, cement, ores and others.

Pharmacy Section

Pharmaceutical Arithmetic. **5 Hrs.**

A course in calculation pertaining to Pharmacy. The student is taught current weights and measures. Metric system, English system, proportion, alligation, specific gravity and specific volume, comparison of thermometer scales, are the chief topics. Special attention is given to the metric system of weights and measures, and their relationship with the English system of weights and measures. Lectures and recitations, 48 hours. Laboratory, 24 hours.

Pharmaceutical Latin. **3 Hrs.**

A course covering such essentials of inflection and syntax as to familiarize the student with the etymology and construction of the nomenclature used in the United States Pharmacopoeia and National Formulary and to enable him to read prescriptions. Lectures and recitations, 36 hours.

Pharmaceutical Technique. **2 Hrs.**

An introductory course in the principles upon which pharmaceutical operations are based. Lectures, demonstrated lectures and recitations, 36 hours.

Pharmacy I. Galenical. **5 Hrs.**

The chief topics of this course are waters, infusions, decoctions, syrups, mucilages, spirits, tinctures, fluid extracts, and other classes of preparations of quite similar nature. Lectures and recitations, 36 hours. Laboratory, 48 hours.

Pharmacy II. Galenical. **5 Hrs.**

This course is a continuation of Pharmacy I. Attention is given to those official preparations which require skill and careful manipulation. Mixtures, emulsions, liquors and certain acids, are the chief topics. Lectures and recitations, 36 hours. Laboratory, 48 hours.

Pharmacy III. Dispensing. **5 Hrs.**

This is a course in extemporaneous pharmacy. Prescriptions, compounding and dispensing prescriptions, and incompatibilities are the chief subjects of this course. The student will be given a liberal opportunity to compound actual prescriptions. Lectures, 12 hours. Recitations, 12 hours. Laboratory, 72 hours.

Pharmacy IV. Commercial. **5 Hrs.**

Bookkeeping, Business Correspondence, Commercial Law, Salesmanship, Pharmaceutical Laws and business practice, are some of the subjects offered under this heading. See schedule for electives.

Pharmacy V. **5 Hrs.**

Manufacture and standardization of inorganic pharmaceuticals. Lectures, 12 hours. Laboratory, 96 hours.

Pharmacy VI. **5 Hrs.**

Manufacture and standardization of tinctures, fluid extracts and extracts. Lectures 12 hours, laboratory 96 hours.

Pharmacy VII. **5 Hrs.**

Manufacture of pharmaceuticals on the commercial basis. Lectures and recitations. Inspection of certain manufacturing plants will be required.

For courses in Language, Mathematics, Biology and Physics, see description of courses under College of Liberal Arts.

Requirements for Graduation

To receive the degree of Pharmaceutical Graduate (Ph.G.), the candidate must be of good moral character and must have satisfactorily completed the two-year's course of study.

To receive the degree of Pharmaceutical Chemist (Ph.C.), the candidate must be of good moral character and must have satisfactorily completed the three-year's course of study.

To receive the degree of Bachelor of Science in Pharmacy (B.S. in Pharm.), the candidate must be of good moral character, and must have satisfactorily completed the four-year's course of study.

As a further condition of graduation all candidates for the Ph.G. degree must be in resident study in this college at least two quarters, for the Ph.C. degree at least one year and for the B.S. in Pharm. degree at least one year, together with credits issued by other recognized colleges.

THE PREPARATORY SCHOOL

Franklin Lewis Berger, Director

FACULTY

ALBERT EDWIN SMITH, D.D., Ph.D.
President

FRANKLIN LEWIS BERGER, A.B., B.S.
Director

RICHARD HOLMES SCHOONOVER, A.M.
Greek, Latin, Rhetoric

GEORGE ANDERSON, D.D
English, History

MARTELLE ELLIOTT DAVIS, A.B., Ph.D.
Modern Languages

JOHN THEODORE FAIRCHILD, A.M., C.E.
Mathematics

JESSE RAY HARROD, B.S.
Physics

ANDREW SCOTT STAUFFER, B.S.
Biology

Purpose

The Preparatory School is organized for the purpose of (1) preparing students for college entrance, (2) affording an opportunity to any desiring to complete the work commonly required in first class high schools.

The course of study in the preparatory school is arranged to meet the usual requirements for college entrance, the minimum of which is fifteen units. The unit consists of five recitations per week for three quarters. Each recitation period is fifty-five minutes in length, two laboratory periods counting as one recitation period.

If a student, on completing the preparatory curriculum, desires to enter college elsewhere, a certificate is issued, showing that the entrance work has been finished. This certificate is accepted in lieu of entrance examinations by the Ohio State University and other leading colleges, and the Ohio State Medical Board.

Admission

Students are admitted at the beginning of any quarter, although it is to the student's advantage to enter at the beginning of the fall quarter.

Requirements for Graduation

Fifteen units are required for graduation.

The following 9 units are prescribed for all:

English	3	**History**	1
Foreign Language	2	**Science**	1
Mathematics	2		

At least 4 additional units must be selected from the following subjects, the number indicating the maximum number of units that will be accepted in any subject.

English	4	**Mathematics**	3
Latin	4	**Physics**	1
Greek	3	**Chemistry**	1
French	3	**Phys. Geography**	1
German	3	**Botany**	1
Spanish	3	**Zoology**	1
History	4		

Not more than two units may be presented from the following subjects:

Mechanical Drawing	1
Domestic Science	1
Commercial Geography	1
Manual Training	1
Stenography	1
Music	½ or 1 unit
Commercial Law	½ unit

Course of Study

	FIRST QUARTER	SECOND QUARTER	THIRD QUARTER
First Year	Latin I. Algebra I. Grammar and Composition I. History I. (Ancient)	Latin II. Algebra II. Grammar and Composition II. History II. (Ancient)	Latin III. Algebra III. Rhetoric I. History III. (Ancient)
Second Year	Caesar I. Biology I. Rhetoric II. History IV. (Med. and Mod.)	Caesar II. Biology II. Rhetoric III. History V. (Med and Mod.)	Caesar III. Biology III. English Literature I. History VI. (English)
Third Year	Cicero I, or Modern Language Plane Geometry I. English Literature II. History VII. (English)	Cicero II., or Modern Language Plane Geometry II. American Literature I. History VIII. (American)	Cicero III., or Modern Language Plane Geometry III. American Literature II. History IX. (American)
Fourth Year	Virgil I, or Modern Language Algebra IV. Physics I. Elective	Virgil II., or Modern Language Algebra and Geometry IV. Physics II. Elective	Virgil III., or Modern Language Geometry V. Physics III. Elective

The Curriculum

The amount and quality of work done in the various subjects taught is intended to meet the requirements of the North Central Association of Colleges and Secondary Schools.

Expenses

The tuition is $34 per quarter, or $100 for the regular school year. The tuition for the summer quarter is $25.

Room and board may be had at most reasonable rates. Good rooms cost from $1.50 to $2.50 per week. Board by the week costs from $4.00 to $5.00 per week. The University owns and operates a splendid cafeteria for the benefit of the student body.

Aid to Students

Loan Fund. The Board of Education of the Methodist Episcopal Church lends money to members of that church taking a regular course in school, who have been in attendance long enough to merit a recommendation from the Faculty. No interest is charged if the debt is paid within five years from the time of leaving school, but a payment of $5.00 each year must be made on the principal, after the applicant quits school. The only security required is a recommendation from a quarterly conference. Loans are made at the beginning of each quarter. Application should be made two weeks before the opening of the quarter and no applicant can be received later than the close of the first week of the quarter. The maximum amount allowed to each applicant is $100 a year. An applicant must have been in attendance at least one quarter.

Work. Many students in the University earn a part of their expenses by working as waiters, janitors, and at other occupations in the town and vicinity.

Registration

The first duty of the new student is to matriculate. He then receives a registration card which he takes to the director of the preparatory school. The director indicates on the card the subjects assigned for the quarter. The student then takes the card to the treasurer, pays his tuition and other fees, and is given a duplicate of his registration card as a receipt and ticket of admission to his classes.

Discipline

Each student is expected to conduct himself as a good citizen of the school. The student is required to attend every class exercise. If absent from any class exercise, the student must get a blank form from the registrar and indicate on it the date and reason for his absence. This must be handed to the instructor at once. A committee on absences acts on these at the close of each quarter, and may or may not grant excuse for such absence. Each unexcused absence reduces the credit hours for the quarter one-fifth hour for each absence.

A student making "Cn" or "F" in half or more of his assigned work for any quarter, will be denied future registration unless he petitions the faculty and gains their consent for registration.

Marks and Examinations

The grade marks are Excellent, Good, Average, Passing, Conditioned, Failure. These marks carry also the following quality points:

Ex., 3; G, 2; Av., 1; P, 0; Cn., -2: F, -3.

Examinations are held regularly at the close of each quarter. Mid-term examinations are given at the discretion of each instructor.

Amount of Work Allowed

The student is allowed to carry 20 hours of class work per week unless his work is of high enough character to justify his carrying more hours. If the student has in excess of 25 quality points earned the preceding quarter, he may register for 25 hours, provided that no subject is marked conditioned or failed.

Advantages

If the student is industrious and attentive, he may carry

25 hours of work. This will enable him to complete the entire course in nine quarters. Because the school is in session during the summer, the student may complete the entire preparatory course in one term more than two years. This represents a great saving of time and money.

Because of the connection of the preparatory school with the University, the student enjoys peculiar and valuable privileges. Among these may be mentioned the three literary societies, the Y. M. C. A., the Y. W. C. A., the college library, excellent laboratories, physical training under experienced instructors, and supervision of his work by regular college instructors.

Reports

Reports will be furnished to parents or guardian at any time on request.

SCHOOL OF COMMERCE

Emmet Elijah Long, Director

Aim

The School of Commerce aims to prepare young men and women to "do things" in the realm of commercial activity.

Location and Equipment

This School occupies the entire third floor of Lehr Memorial, equipped throughout with up to date fixtures and office funishings for class use, Remington typewriters, Burrough's adding machine, posting machine and calculators, and all appliances needed in efficient instruction. The quarters are roomy, with abundance of light, ventilation and toilet conveniences.

The Courses of Study

The courses of study, thorough and practical, are arranged to meet the needs of young men and women planning to enter fields of business organization and adminstration or upon clerical, stenographic, secretarial or commercial teaching careers.

Time Required

It requires about three quarters (nine months) to complete the short course either in Bookkeeping or Stenography, the length of time depending on previous educational preparation, aptness and application; the two years course in Commerce, about six quarters; the Commercial Teachers' Normal Course, six quarters; the Pre-Commerce Course, six quarters. Students are promoted as rapidly as they advance, but no student is permitted to enter a higher or advanced class until all prerequisite work has been completed.

Degrees and Diplomas

Students completing the Commercial Teachers' Normal course are granted a diploma with the rank, "Graduate of Pedagogy in Commerce;" persons completing the two years course are ranked "Graduate in Commerce;" student completing the shorter courses are certified and graduated with the rank, "Graduate in Bookkeeping" and "Graduate in Stenogaphy," respectively.

Special Students

The regular courses have been arranged for those who have completed high school or preparatory work. Students not having had such preliminary training, or those not caring to complete a prescribed course will be admitted as special students. Certificates showing amount of work completed will be issued to special students. These credits may be applied on regular courses later, should they become candidates for graduation.

When to Enter

Students are admitted at the beginning of each quarter. Many of the subjects scheduled in the two short courses, the two years course, and the Teachers' Normal course are repeated each term.

In the Summer quarter an excellent opportunity is given for teachers and those unable to attend during the other months of the year to pursue the course desired.

See calendar on the second page of the catalogue.

Situations for Students

Positions are not guaranteed, but the Employment Bureau of the University cheerfully assists graduates and students qualified for positions. There is no charge for this except the necessary postage.

The O. N. U. Commercial Club

The Commercial Club is a live organization maintained by the students and faculty of the School of Commerce. It meets regularly and discusses the many phases of business activity and commercial topics.

University Advantages

The University offers to every student of the School of Commerce additional privileges: Admission to courses in the College of Liberal Arts without extra charge when prerequisites have been met; the opportunity of participating in literary work in the three literary societies; and the benefits of college environment and associations.

Teachers' Normal Commercial Training

The Commercial Teachers' Normal Course, outlined hereafter, meets the present legal requirements for accrediting, and the School is authorized to announce that the State Department will recognize all graduates and will grant, without further examination, a four-year provisional certificate to teach commercial subjects in the public high schools and educational institutions.

Short Course in Bookkeeping

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER
Accounting 1. 5	Accounting II. 5	Accounting III. 5
English I. 3	Commercial Arith. 5	Com. Law 4
Economic Hist. 3	Bus. English 4	Salesmanship 3
Rapid Cal. 1½	Typewriting II. 2	Business Org. 2
Typewriting I. 2½	Economic Hist. 11 3	Economic Hist. 3
Spelling 2		
	19	17
19		

Students desiring credit for Bookkeeping done elsewhere must present the books representing the work done including the blanks or sets, or prove the amount and nature of the work done, or pass an entrance examination at the discretion of the instructor. This applies to all the schedules of the School.

Short Course in Stenography

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER
Stenography I. 5	Stenography II. 5	Stenography III. with Typewriting 5
Typewriting I. 2½	English II. 3	Office Practice 2
English I. 3	Typewriting II. 2	Commercial Cor. 4
Spelling 2	Business Eng. 4	Salesmanship 3
Penmanship 2½	Accounting I. 5	Commercial Law 4
Office Training 3		
	19	
18		18

Two Year Course in Commerce

(Rank—Graduate in Commerce. Prerequisite:
A high school education.)

FIRST YEAR

FIRST QUARTER		SECOND QUARTER		THIRD QUARTER	
English I.	3	English II.	3	Accounting 3	5
Economic Hist.	3	Economic Hist. II.	3	Economic Hist. III.	3
Accounting I.	5	Accounting 2	5	Salesmanship	4
Rapid Cal.	1½	Commercial Arithmetic	5	Commercial Law	4
Penmanship	2½			Typewriting 1	2
Spelling	2				
	17		16		18

SECOND YEAR

FIRST QUARTER		SECOND QUARTER		THIRD QUARTER	
Accounting 4	5	Stenography 2	5	Stenography 3 with Typewriting and direct Dictation	5
Stenography 1	5	Typewriing 3	2	Commercial Correspondence	4
Typewriting 2	2	Business English	4	Office Practice	2
Modern Language	5	Modern Language	5	Modern Language	5
				Bus. Org.	2
	17		16		18

Economics may be substituted for Modern Language with consent of the Director.

Machine Bookkeeping and Calculator courses may be substituted for Accounting IV.

100 hours are required for graduation. Students having completed part of this work in high school must take an equivalent number of hours of college work to be selected by the Director.

Students pursuing the Two Year course are advised to arrange for remaining steadily at the work for six successive terms, if possible beginning with the Fall quarter.

Commercial Teachers' Normal Course

(Diploma—Graduate in Pedagogy in Commerce. Prerequisite: Graduation from a first grade high school or its equivalent.)

FIRST YEAR		SECOND YEAR	
Educational Psychology	2	Principles of Secondary Education 1	3
Accounting 1	5	General High School Methods	3
Penmanship	2½	Stenography 1	5
Rapid Calculation	1½	Typewriting 1	2
Business English	4	Accounting 4	3
	15		16
Educational Psychology 2	2	Principles of Secondary Education 2	3
Accounting 2	5	Special Methods in Teaching Bookkeeping	3
Commercial Arithmetic	5	Stenography 2	5
Commercial Law	4	Typewriting 2	2
	16	Advanced Accounting and Auditing	2
		Professional Elective	3
			18
Educational Psychology 3	2	Practice Teaching	5
Accounting 3	5	Special Methods in Teaching Stenography	3
Commercial Correspondence	4	Stenography 3 with Typewriting	5
Salesmanship	4	Observation	2
Business Org.	2	Secretarial Work	2
	17		17

One hour class-room exercise, five days the week, on work previously prepared, counts 5 credit hours.

One hour instruction on the laboratory plan, five days the week, counts 2½ credit hours.

Length of class-exercises, fifty-five minutes.

Maximum number of hours permitted a week, twenty; minimum, fifteen.

Description of Courses

Accounting I. This course, planned for beginners in accounting, gives the student the fundamental principles of bookkeeping. He becomes acquainted with a variety of books used by a single proprietor conducting a retail business. Offered each quarter.

Accounting II. This is a partnership course, introducing features used in a modern office; the budget system is presented. Open to all students having completed Accounting 1., or its equivalent. Offered each quarter.

Accounting III. A theoretical and practical course, dealing with the questions of the modern corporation. Special column corporation accounting books are used in connection with the Cash Journals. (Budget System). Offered each quarter.

Business English. A thorough course in practical business letter writing, including postal and general office information. Required in all schedules.

Commercial Correspondence. A continuation of work begun in Business English, with emphasis on collection, follow-up, adjustment, sales, credit and form letters.

Spelling. Regular and systematic drills are given in written and oral spelling in all courses. Students are required to take these drills and pass satisfactory examinations.

Advanced Arithmetic. Classes in advanced Arithmetic are formed in the College of Education in which students pursuing the short courses of the College of Commerce take a thorough review of that subject when beginning.

Commercial Arithmetic. Emphasis is placed on the solution of all kinds of problems met in transaction of business. Thorough from beginning to end.

Rapid Calculation. Drill in speed and accuracy in figures. The training in such that a student in carrying out extensions in invoices and statements, and computing discounts, is able to do it in large part mentally.

Commercial Law. The essentials of law from a business standpoint so presented as to enable one to know and defend his rights.

Shorthand. Thorough instruction in the principles by both individual and class methods, followed by practice in receiving dictation covering all lines of business, with speed, accuracy, phase and word-sign drills, until the student is able to do practical office work.

The Gregg System is taught to all beginners, but the department is prepared to teach any other leading systems to commercial teachers who are required to teach any of them. Those having learned the principles of another system, if able to take dictation, are allowed to enter the dictation classes and write their own systems.

Typewriting and Multigraphing. All students pursuing regular courses in the College of Commerce are required to take training in the operation of the typewriter. The Touch system is taught, the instructor supervising the work during every period. Drills are given in every phase of the work required of typewriters.

Typewriting is required to be done in the Typewriting Department. Those taking typewriting elsewhere must present their papers for grades and take examinations, for which a fee of $3.00 is charged.

Students deformed in hands or arms are permitted to elect an equal amount of instruction in some other subject with the approval of the Director.

Secretarial Duties. Practical training in secretarial work, including the performance of these duties, under direction of the instructor, for the Deans of the University, Executive Secretary and others requiring the service of secretaries from time to time.

Penmanship and Lettering. The best systems of writing are used, with the advantage of modern methods of instruction. The writing is easily read, rapidly written, simple in forms, natural in slant, easy of movement, and pedagogically taught.

All students in the College of Commerce are admitted to the classes in business writing without extra charge.

Lettering, including display cards, price tickets, decorative designs, etc., is taught to students desiring this kind of instruction.

Machine Bookkeeping. With a Burrough's Bookkeeping Machine students are trained in the Mechanical Bookkeeping systems, which are rapidly supplanting pen and ink methods in thousands of banks and business offices of the country.

Calculating Machine work. The school is equipped with a battery of Burroughs Calculators. These machines are used in offices of thousands of business concerns for handling all kinds of figure work.

Without previous business experience of any kind students are able to become expert Calculator operators after a very brief course of study.

Professional Subjects in Education. For those preparing to teach commercial subjects. Principles of education, history of education, educational psychology, school management, school law, general and special methods, observation and practice teaching, and such other subjects as are required by the State Department of Public Instruction. For detailed description, see College of Education.

College of Law Subjects. Sales, contracts, partnership, agency. See College of Law.

Liberal Arts Subjects. Psychology, Sociology, Economics, Spanish, German, French. See College of Liberal Arts.

Pre-Commerce Course, see College of Liberal Arts.

TUITION—PENMANSHIP

Ornamental penmanship, pen drawing, card writing and show card writing, one hour per day, per quarter------------------------$4.50

General penmanship free to students of all departments.

All students in the College of Commerce are admitted to courses in the College of Liberal Arts without extra charge, if the prerequisites to such courses have been met.

For further information regarding tuition and fees of this repartment see Expenses, earlier pages of this bulletin.

A. D. JUILLIARD SCHOOL OF MUSIC

FREDERIC THOMAS KILLEEN, DIRECTOR

Aim

The music department of the Ohio Northern University stands ready to give solid, fundamental training in the various branches and to advance its students to a graduation creditable to them and to the University. The school is equally suited to those specializing in music and to those desiring to avail themselves of certain of its advantages, while following some other line of university work.

Equipment

The lower floor is used for teachers' studios, a reception room and a small recital hall. The upper floor is given over entirely to pupils' practice rooms. They are well lighted, heated and ventilated and equipped with pianos of good make.

Lehr Auditorium, equipped with a grand piano and a new pipe organ, furnishes an excellent place for public recitals and concerts.

DEPARTMENTS AND COURSES

Voice

First Year. A thorough knowledge of breathing and breath control; exercises in breathing and tone placing; in agility and relaxation of muscles; Ferdinand Sieber's eight measure studies and the ten studies, Op. 44-49; simple songs, carefully selected to assist the pupil in conquering his difficulties.

Junior. Exercises in agility, uniting of the tones; the swell, mezzo voice, embellishments; studies in the Masterpieces of Vocalization, which is a graded series of vocal studies selected from the works of all the great masters of singing; songs of suitable grade

Senior. Advanced exercises in agility covering all kinds of scales and chords in both major and minor; mezzo voce, trill; exercises for strengthening the voice. Advanced work in the Masterpieces of Vocalization.

Throughout the course carefully selected songs and arias from the best American, English, French and Italian writers are used. While songs in foreign tongues are often taught in the language in which composed, special care is taken to give the pupil a clear and intelligible enunciation of the English language.

It is advised that voice pupils study French and Italian

Pianoforte

Instruction in piano playing involves a special adaptation to the needs of the individual pupil. A minute study of each student's deficiencies and previous habits of work is made and technical studies and pieces best adapted to his needs are given him. Music is a means of intellectual culture and artistic enjoyment; the works of the best masters are therefore employed through all grades.

First Year. Bach, Little Preludes. Two-part Inventions. Kuhlau Clementi Sonotinas. Schools of Velocity by Berens, Czerny, etc. Jensen and Cramer Etudes. Doring Octave Studies. Sonates by Hayden, Clementi, Mozart, Beethoven, etc. Selected Pieces.

Junior. Bach, Three-part Inventions. Preludes and Fugues, Well-tempered Clavichord. Clementi's Gradus ad Parnassum, Czerny, Op. 740. Sonates by Mozart and Beethoven. Compositions by Mendelssohn, Schubert, Grieg, MacDowell, etc.

Senior. Daily Studies, Czerny. Octave Studies, Kullak. Solo works of greater difficulty by Schuman, Chopin, Liszt, Henselt, Moszkowski. Concertos by Mozart, Hummel, Mendelssohn, St. Saens, Grieg, etc.

Courses for Children. The object of these courses is to induce parents to send their children to school at an early age, where they can be under competent instruction from the start, and where they may be assured that no time will be lost in entering upon their advanced work.

The policy of the school throughout is not to adhere strictly to any one so-called "method"; the instructors, after careful study, have selected the best features in various methods, and offer to the students a course of training unexcelled in any conservatory.

It is the endeavor to make the study of piano interesting to the child and to keep practice from becoming mere drudgery. High ideals are set before him and the foundation is laid for a broad musical knowledge.

Organ

The course of study provides for thorough training in preparation for church and concert work. The course has been arranged to give a knowledge of the French schools of organ music through the study of the works of the best composers in this school.

First Year. Stainer's Organ Primer. Bach Chorales. Studies by Merkel and Whiting. Easy Hymns.

Second Year. Rheinberger Trios. Eight Short Preludes and Fugues by Bach. Nilsson Pedal Studies. The easier pieces by Guilmant, Dubois, Batiste, Faulkes, Lemare, and others. Hymns of any difficulty.

Junior. Trios by Bach. Preludes and Fugues by Bach. Chorale Preludes. Sonates by Mendelssohn. Pieces of medium difficulty by Guilmant, Dubois, Gigout, Widor, Lemare, Hollins, etc.

Senior. Preludes and Fugues, Books III. and IV., Bach. Sonates by Guilmant, Gigout, Thiele, Lemmens.

Violin

First Year. Violin methods of Polanaski, Schraedick and DeBeriot; Etudes of Alard and Kayser; O'Senick, School of Bowing Technique; Solos by Dancla, Sitt, Bohn, Seity, et cetera.

Junior. Etudes of Blumenstengel, Mazas, Dont; Technique Prepartoire of Sevcik; Concertos of DeBeriot, Viotti, Krentzer; Solos, Obertass of Wienianiski, Andante and Scherzo of David, Ballade et Polonaise of Vieuxtemps, Russian Airs of David.

Senior. Etudes of Kreutzer, Fiorillo and Rode; Techniqual Studies of Sevcik and Schraedick; Concertos of Bruch, Spohr, Mendelssohn and Mozart; Sonatas of Handel and Beethoven; Solos, Zigennerfeisen of Sarasate; Marzurka of Musin; Romances of Beethoven; Suite of Sinding.

Theory, History and Ear Training

The Course in Theory is twelve weeks long, classes reciting twice a week. It includes the elements of Acoustics and Tone Quality; a description of the Orchestra and its Instruments; Accent, Rhythm and Tempo; Outlines of Motive Transformation and Thematic Treatment; Explanation and Analysis of Musical Form; Textbook, "Theory of Music" by Louis C. Elson; the text is supplemented by work in other texts and additional analysis of form.

The Course in Ear Training is twenty-four weeks long, and is a requirement of all first year harmony students. In this class the pupil is taught to recognize by ear and express in writing, rhythms, intervals, melodies, chords, chord progressions and modulations.

The work is carefully graded from the simplest studies in the major scale to those involving difficulty problems in both rythm and intervals. In general, the course follows the textbook, "Ear Training" by A. E. Heacox.

The Course in Musical History is thirty-six weeks long, beginning with the fall quarter or at other times if a sufficient number desire it. Classes meet twice a week.

The aim of the course is to trace the art of music from its beginnings to its present date. Much time is devoted to the lives of the greatest composers and to a careful study of representative works of each. Due consideration is also given to the development of the larger forms. The text used is "History of Music" by W. S. Pratt and this is supplemented by letters and collateral reading.

Harmony

The text used in this course is "Lessons in Harmony" by Heacox and Lehmann, supplemented with collateral texts and reference books.

The four quarters of work in this subject required for graduation are as follows:

First Quarter. A thorough knowledge of keys, scales, signatures, intervals, and triads gained by frequent oral and written drill. Simple part writing from given bases and sopranos. Playing of cadences at the piano.

Second Quarter. Dominant and supertonic seventh chords. Modulation begun. Dominant ninth. Other chords of the seventh. Writing of original hymn tunes.

Third Quarter. Modulation to nearly related keys. Advanced studies in secondary seventh chords. Chromatically altered chords.

Fourth Quarter. Modulation to remote keys. Enharmonic changes. Suspensions, retardations, appogiaturas, anticipation, passing tone, embellishment, pedal point.

Counterpoint

Simple Counterpoint in two parts, in all species and combinations. Three part counterpoint in first, second and third species. Completion of three part Counterpoint; four part Counterpoint; Imitation. The textbook used in Counterpoint is "Simple Counterpoint" by F. J. Lehmann. Prerequisite: Harmony I., II., III., IV.

Harmonic Analysis

The one quarter of work in this subject required for graduation is devoted to a study of the text "Harmonic Analysis" by F. J. Lehmann.

GRADUATION

To finish any of the courses (Voice, Piano or Organ) with credit usually requires four years of work, the exact time depending upon the talent and industry of the pupil. No pupil is allowed to finish with fewer than two lessons a week during the senior year. A diploma is awarded upon the satisfactory performance of a public recital and the completion of work indicated in the following outline:

Voice. Harmony, 3 quarters; Musical History, 3 quarters; Theory, 1 quarter; Ear-Training, 2 quarters; enough Piano to play accompaniments.

Piano. Harmony, 4 quarters; Harmonic Analysis, 1 quarter; Counterpoint, 1 quarter; Musical History, 3 quarters; Theory, 1 quarter; Ear-Training, 2 quarters; Voice or Violin, 3 quarters.

Organ. Harmony, 4 quarters; Harmonic Analysis, 1 quarter; Counterpoint, 1 quarter; History of Music, 3 quarters; Theory, 1 quarter; Ear-Training, 2 quarters; 3 quarters Voice or Violin; creditable knowledge of Piano.

Violin. Harmony, 4 quarters; Harmonic Analysis, 1 quarter; Counterpoint, 1 quarter; History of Music, 3 quarters; Theory, 1 quarter; Ear Training, 2 quarters; Piano, 3 quarters.

Post Graduate Work given in all departments.

TEACHERS' COURSE

This course is especially for those pupils who are not gifted as performers but are qualified to teach. Those completing the Teachers' Course are not required to give a public graduating recital, but will render a suitable program at one of the Tuesday evening recitals.

The theoretical subjects for this course are the same as for the diploma course, and in addition the student will be required to take nine hours pedagogical work.

PUBLIC SCHOOL MUSIC

Supervisor's Course

Diploma: Graduate in Public School Music

FIRST YEAR

Fall Quarter

Elements of Music	3
College English I.	3
Introductory Psychology	2
History of Music	3
Singing	2
Piano	2
Physical Training	1
Chorus	1

Winter Quarter

Elements of Music	3
College English II.	3
Educational Psychology	2
History of Music	3
Singing	2
Piano	2
Physical Training	1
Chorus	1
Elements of Music	3

Spring Quarter

College English III.	3
Educational Psychology	2
History of Music	3
Singing	2
Piano	2
Physical Training	1
Chorus	1

SECOND YEAR

Fall Quarter

Advanced Singing	2
Advanced Piano	2
Harmony	2
Class Management in Music	2
Methods in Pub. School Music	3
Principles of Teaching	3
Observation and Practice	2
Chorus	1

Winter Quarter

Advanced Singing	2
Advanced Piano	2
Harmony	2
Course of Study and Class Management	2
Methods in Pub. School Music	3
Principles of Teaching	3
Observation and Practice	2
Chorus	1

Spring Quarter

Advanced Singing	2
Advanced Piano	2
Harmony	2
School Administration	2
General Methods in Music	3
History of Education Modern	3
Observation and Practice Teaching	3
Chorus	1

RECITALS

Pupils' Recitals. Pupils' recitals are held at seven o'clock every Tuseday evening to enable the student to gain confidence and exhibit the progress he has made.

Faculty Recitals. At intervals the faculty of the College of Music presents a program of such nature as to further the education and standards of the students.

Artists Recitals. By means of these recitals the pupils come in contact with the great musical personalities and hear the best music well performed.

MUSICAL ORGANIZATIONS

Choral Society. The Choral Society is made up of both university students and townspeople and is open to all who love good music. The society meets every Monday evening that school is in session during the first three quarters. The fees charged are nominal. The society aims to give two public performances each year.

Men's Glee Club. A glee club of twenty voices has been organized, for the purpose of giving home concerts and touring the state each year.

Girls' Glee Club. This club is organized to learn the best in choral works written for female voices, and to give a concert each year.

Orchestra. A large orchestra is being organized to take up standard works of the great composers, and to play at the concerts of the Choral Society.

Band. A splendid band under the direction of Sig. Michael Mazzula is maintained, affording an opportunity for study and practice to students playing a brass or reed instrument.

Choirs. Choir work is of marked value in a musical education. All advanced voice students should take advantage of its benefits.

The churches of the town welcome students to their choirs.

RUDIMENTS AND SIGHT SINGING

A course in Rudiments and Sight Singing is given twice a year,—in the winter quarter and in the summer quarter. The class meets twice a week and is free to all university students.

TUITION

Voice, Piano, Organ or Violin, quarter of twelve weeks, two lesson a week	$22.00
One lesson a week	14.00
For either of the six-weeks summer terms, Voice, Piano, etc., two lessons a week	14.00
One lesson a week	8.00

Children's Department

Piano, quarter of twelve weeks, two lessons a week	$13.00
One lesson a week	7.20

Class Lessons

Harmony, per quarter	$7.50
Counterpoint, per quarter	7.50
History of Music, per quarter	5.00
Theory of Music, per quarter	5.00
Ear Training, per quarter	5.00

EXPENSES

Piano rent, one hour a day, per quarter	$ 2.50
Rent of Pipe Organ for practice, one hour a day per quarter	12.00

These rates are for lessons by the quarter only. Single lessons are more.

Pupils registering within the quarter are changed for one lesson more than is given them.

SCHOLARSHIPS

Friends of the institution have made three music scholarships available. One of these is given by Mrs. Avanell C. Stambaugh. The name of the donor of the other two is withheld by request. The award is made by the President of the

University and the Director of the School of Music. Preference is given to those who wish to take up the teaching of music.

GRADUATION FEES

Diplomas are awarded to students completing recital courses in Voice, Piano, Organ or Violin. The graduation fee is $5.00.

Certificates are awarded to students completing the Teachers' Course in any of the above subjects, and to those completing the course in Public School Music. The graduation fee in these courses is $2.00.

REGULATIONS

1. All tuition payable in advance.
2. Lessons lost with reasonable excuse will be made up where pupil has given teacher twenty-four hours notice of intended absence.
3. Credit will be given for work done elsewhere, and the pupil will be permitted to enter the grade for which he is prepared.
4. Practice rooms in the Music Building are provided for non-resident pupils.

REFUNDING

See earlier page of this catalogue.

SCHOOL OF AGRICULTURE

ANDREW SCOTT STAUFFER, DIRECTOR

Equipment

The Department of Agriculture, established in 1909, after having been closed for "the period of war," was reopened in September, 1919.

The University possesses a farm of ninety acres, conducted under modern principles of management, and has an equipment of modern agricultural machinery, including a Fordson tractor.

In view of the many soil formations of the region and the crops to which the University farm and the locality in general is devoted, soil and crop production can be very advantageously studied.

The horticultural department has **a commodious experimental greenhouse** just completed, which is stocked with the varied and rare plants for horticultural and biological instruction. Within a few blocks of the University are som of the largest greenhouses in the country, covered by 50 to 75 thousand square feet of glass. They are devoted to the raising of flowers, vegetables, the cultural operation of which the classes systematically observe and study.

The University library has upon its table the important current live stock literature, while the traveling library of the state supplies the institution with numerous volumes upon animal husbandry. Bulletin of experiment stations and of the United States Department of Agriculture, including the year book of that department and the works of the Bureau of Animal Industry, may be found on the library shelves.

Courses Offered

The University offers only those courses in which it has ample laboratory facilities for thorough teaching. For this reason the School of Agriculture offers accredited instruction only for the first two years of a four year course, paralleling in these two years the curriculum of leading state agricultural colleges. Students are advised to complete their last two years in a State University, which, by reason of superior technical facilities for specialized courses, is enabled to serve the student more advantageously.

Schedule

See Liberal Arts Section.

SCHOOL OF RELIGION

Matrona Angelo Burris, Director

SCHOOL OF RELIGION

The purpose of this school is to aid in the rescue of the truth, which results in the restoration, deepening, and broadening of the spiritual in life; the interpretation of the proper place of the secular in its relaton to life; and the final interpretation of all things in terms of the Christ-life in the individual and social life.

Philosophy was once religious. Then it became skeptical. Afterwards it again became religious. Once more it lasped into scepticism. For some time, recently, the tendency has been for it to return to religion and Christianity, although it has scarcely known how to do so, or really known what constitutes Christianity.

It is thus seen that philosophy was anciently social, safe, and unified, but it later drifted to extreme individualism, or anarchy of thought. Then came Christianity tempering philosophy for centuries. Now the problem is to once more redeem it from anarchy; to try to convince the intellects of men that the only solution for the terrific and threatening modern conditions is a return to Christ. Great industrial leaders and statesmen have recently declared, in surprising numbers, that the only hope of saving our civilization is to be found in getting "Back to Christ," but they have not given us a system of thought or philosophy that will convince men's intellects of the necessity of Christ in modern life, nor a method of Christianizing the social, political, and industrial orders.

Our purpose is to make this a most efficient and practical spiritual training school for the study of these problems.

COURSES OF STUDY

See Liberal Arts Section.

SCHOOL OF EXPRESSION

MAE DEMING McCOPPIN, DIRECTOR

INTRODUCTORY

Since the last catalogue was issued the Faculty of the School of Expression has been increased by the addition of two professors. Major A. B. C. Deming, M.A., B.O. Diploma, Emerson College of Oratory, Boston, Mass., and Ohio Northern University and many years experience in teaching and platform art.

Special in Courses IV. V, VI, VII and IX.

Grace Norman Rosser, General Culture, Gymnastics and Teachers Diplomas, Curry School of Expression, Boston, Mass., and Ohio Northern University. Pupil of F. Faulhaber, Boston and L. Chalif, New York City.

Professor Rosser has taught in the Maryland College for Women, Lutherville, Md.; Howard University, Fairmont Seminary and Martha Washington Seminary, Washington, D. C.

Special in Courses VIII. IX and X

Aim

The aim of this school is to prepare men and women for fuller service in public speaking, whether as teachers, readers, lectures, preachers or lawyers, and also to meet the need of those who realize the general cultural value of the study of Expression. For this reason, expression is taught, not by imitation, but by the mastery of definite laws in such a way as to bring out the individuality of the student.

In selecting an institution for your development in expression, careful consideration of the method of instruction employed should be uppermost in your mind. Our instruction is founded upon nature's method of causing expression—the mental process. Well established laws of psychology and pedagogy are employed, insuring a steady "growth from within." What you learn here, it will not be necessary to unlearn after you leave. For insincerity and affectation which receives justifiable criticism, we substitute a fuller appreciation of literature and aid in creating a desire to present these new found beauties in a true spirit of service.

The fact that the School of Expression is a part of the

Ohio Northern University gives our students many advantages that come from university residence, participation in various college activities and opportunity of pursuing other studies with their expression course. Students in other courses can also take any part of the expression suited to their needs, after consultation with the Director of Expression.

Courses

The courses may be grouped under two general classes.

A. General Culture—for those desiring to meet the demands of today's social intercourse. Sight Reading, Mythology, Voice Training, Breathing, Physical Culture, Literary Interpretation of Prose and Poetry, Extempore Speaking, Dramatic Training, Pantomine, Gesture and 55 Private Lessons.

B. Professional Culture—for Teachers, Platform Readers, Public Speakers, Clergymen, Lawyers, in fact, all who aim to profit by any form of Speech Arts. This course includes all subjects under the first course and Theory in Preaching and Teaching, School Management, Composition and Delivery of Orations, Forensic Oratory, Argumentation, Debate, Vocal Physiology, Correction of the Faults of Speech, Plot, Character Study and interpretation of Merchant of Venice, As You Like It and Hamlet, with preparation and presentation of scenes for criticism, Platform Programs, Normal Work, in all departments and 90 Private Lessons.

1. **General Culture.** To meet the needs of those who wish to extend the sphere of their influence.

2. **Public Readers.** To develop students to meet the demand for the various kinds of entertainment; an enjoyable and profitable profession.

3. **Teachers of Expression.** Teachers with a mission are needed in every locality and they make the lives brighter of all who come under their influence.

4. **Public Speakers.** This course is to develop original thinking and persuasive presentation in the presence of an audience. It is especially helpful to Preachers, Lawyers, Teachers, and Lecturers but is so arranged as to meet the present

day needs of all who desire or are required to speak before others.

5. **Teachers of Public Speaking.** This course includes parts of Courses I, II, III and all of IV. It is to supply the demands of Y. M. and Y. W. C. A's, High Schools and Colleges.

The equivalent of "College Entrance Requirements" is necessary to enter this course.

6. **Dramatic Art.** Dramatic Construction, characterization and stage business are studied from the standpoint of interpretation. Plays are presented before the entire student body. Membership in the Dramatic Club is necessary for this course.

7. **Dramatic Coaching.** This course includes parts of Courses II. III, IV, V and all of VI. It is to meet the increasing demand for competent coaches for amateur plays by High Schools, Literary Clubs, etc.

8. **Playground Teachers.** To those who are prepared to do this teaching there is offered a pleasant occupation for the summer or an opportunity to extend a beautiful charity. This course includes: Educational Gymnastics, Games, Plays, Folk Dancing, Story Telling, Industrial Work, Basketry, Swimming (Extra, but required for certificate.) Light Apparatus, Field Sports, Gymnastic Games and First Aid to the injured.

9. **Recreation Director in Public Schools.** This course includes Course VIII. also advanced work in: Theory and Practice of Gymnastics; Games: Folk, Aesthetic and Interpretive Dancing; Coaching of Plays; Indian Club, Dumb Bell and Wand Drills and Anatomy.

10. **Interpretive Dancing.** Courses in Aesthetic, Interpretive of Folk Dancing may be had by those not in the Play Ground Course.

11. **Fencing.** Courses may be had in either Foil or Sabre Fencing. This is the knightliest of sports, combining exercise with amusement. The body acquires ease, grace and suppleness, while the judgment, eye and nervous instinct are thoroughly cultivated. Our instructor, Major Deming, in addition to his military experience, has had special instruction from the foremost exponents of French and Italian methods.

11. Electives. Those not desiring to register in any prescribed course may, with the advice of the Director of Expression, select parts of various courses, either in class or private lessons, to suit their needs.

NOTE: Students completing any of the teachers' courses are required to do practise teaching under supervision.

Children's Classes

On Saturday afternoon and at other times, in vocal training, reading and recitation.

Public Speaking

Practical courses are given to speakers to develop the power to think when on their feet, and secure not only a vocabulary, but control of voice modulations and pantomine actions. The student is assigned studies to awaken a true ideal of oratory. These develop mental power and grasp, logical method, and control of feeling as well as of voice and body.

Problems in Expression

Short passages, sentences, or phases, original and selected, are rendered by students to stimulate the creative actions of mind, body and voice in natural unity.

Courses: 1. Problems in Reading. 2. Voice Problems. 3. Harmonic Problems. 4. Pantomimic Problems. 5. Dramatic Problems. 6. Problems in Speaking.

Recital and Contests

The school offers the students many opportunities of appearing before public audiences as readers, orators, debaters and public speakers in general. A goodly number of programs are arranged every year in the University and town, to all of which students are eligible. In addition, the students are expected to appear in frequent recitals given by the School of Expression.

Certificates and Diplomas

Those satisfactorily completing the One Year General Culture Course will be granted a certificate to that effect. Those satisfactorily completing the Two Year Professional Course will be granted a Diploma of Graduation by the University. The degree of Bachelor of Oratory is granted to those completing a three-year course, provided they hold a high school diploma or its equivalent.

EXPENSES

Tuition

Class Lessons, per quarter	$15.00
Private Lessons, per quarter (15 lessons)	15.00
Class and Private Lessons and Physical Culture	30.00
Private lesson, single lesson	1.25
Textbooks, stationary, et cetera, per year, about	5.00
Physical Culture, per quarter	7.00

PHYSICAL EDUCATION AND INTER-COLLEGIATE ATHLETICS

J. OTTO NEWTON, DIRECTOR

DEPARTMENT OF PHYSICAL EDUCATION AND INTER-COLLEGIATE ATHLETICS

J. OTTO NEWTON, D.D.S., Director

CARRIE A. WILSON, Assistant for Women

The department is just now being reorganized. Beginning with the school year September, 1921, we will offer properly graded courses in physical education for both men and women. The ultimate organization of the department cannot be advisedly announced at this time, as the objective toward which we shall work is the preparing of men and women for the directorate of departments of physical education in Y. M. C. A.'s, Y. W. C. A.'s, secondary schools and high schools.

While the director of this department will have supervision of these classes for both men and women, assistants have been provided to care for the elementary and practical floor work of the gymnasium.

It is required that the courses for advanced classes be open to such students only as have completed the elementary courses. The entire department is graded systematically and progressively.

Course No. 1

Elementary Physical Education

Two hours a week. One hour credit.

Correction of posture and physical defects, prescibed exercises for definite physical inefficiency and deficiency and fundamentals of theory and practice in calisthenics, recreation and play.

Course No. 2

Advanced Course

Two hours each week. One hour credit.

Advanced theory and practice, gymnastic nomenclature, apparatus work and practical graded leadership. This work seeks to develop muscular co-ordination, health, habits of exercises, capacities for leadership and moral qualifications for departmental administrations.

Course No. 3

Departmental Administration and Organization

Three hours each week. One hour credit.

This teachers' course will deal with personal hygiene, physical diagnosis, advanced gymnastics, theory and practice of teaching physical education.

In addition to the course suggested above this department will have general supervision of the organization of the inter-class, inter-mural, inter-society, and inter-fraternity athletics. A physical examination will be given each student at the beginning of each year and personal efficiency tests will be given one or more times each year. In order to secure a passing credit in this work, a definite advancement must be noted as the results of these tests. Courses one and two are required of all students in the Ohio Northern University before they may become eligible to any degree Course three is elective and open to those who have completed courses One and Two.

Inter-Collegiate Athletics

CHARLES WESLEY BOLEN, COACH

Ohio Northern has been a member of the Ohio Conferences of Colleges in Athletics, commonly known as the "Big Six", since 1916, and an enviable reputation has been gained and maintained upon the "Simon Pure" basis of the quality of her teams and the character of her representatives in inter-collegiate athletics. In football, basketball and baseball, she has invariably been rated among the stronger colleges of the State, and just now the outlook for the future is most promising. A new athletic field of ample proportions provides equipment and space for a good diamond, football gridiron, tennis courts, and running track. The equipment of the varsity teams and the addition of assistants to the coaching staff insures a careful training and development of the "Varsity" in all sports. In fact, Ohio Northern offers the widest opportunity possible for outdoor sports, and takes just pride in maintaining varsity teams of the highest order.

Courses in Varsity Coaching and Physical Education

During the fourth quarter, commonly known as the summer quarter, the department of physical education offers six weeks course in coaching in various sports: Football, basketball and track. These courses will cover the fundamentals of each sport; team training, massage and care of injuries, the science of building plays, discussion of the systems now in use by the major coaches in the country, in addition to this, fundamentals of physical education and practical work necessary to prepare men and women to handle this department in all high schools and graded schools. This entire course will be under the supervision of the director and his assistants. Fuller specifications as to the detailed work will be furnished upon application.

HONORARY DEGREES, 1921

Brown, Erastus H.	(M. Ped.)	Upper Sandusky, O.
Drayer, Clarence E.	(D. S.)	Chicago, Ill.
Jones, Robinson Godfrey	(D. Ped.)	Cleveland, O.
Kiser, Donald Joseph	(LL.D.)	New York City
Lenroot, Irvin Luther	(LL.D.)	Washington, D. C.
Miller, Charles E.	(M.C.S.)	Charlestown, W. Va.
Selanders, W. C.	(M.A.)	Madisonville, O.
Seward, Oliver Lee	(D.D.)	Marion, O.
Stanton, Frank W.	(D.D.)	Franklin, O.

GRADUATES, 1921

Liberal Arts

Agin, Merle M.	(B.S.)	Ada
Barnes, Ada Lucile	(A.B.)	Ada
Biddle, Helen Lucile	(B.S.)	Kenton
Blough, Homer Chester	(B.S.)	Hollsopple, Pa.
Brewer, Ruth Delay	(B.S.)	Ada
Brown, Mary Clare	(A.B.)	Cleveland
Buchele, Edward Everett	(A.B.)	Ada
Cotner, Wilbur C.	(B.S.)	Lima
Erickson, Henry	(B.S.)	McKeesport, Pa.
Fang, Tsu Hsing	(B.S.)	Shanghai, China
Fidler, William Royal	(A.B.)	Salem
Folk, Curtis J.	(A.B.)	Findlay
Haber, Tom B.	(A.B.)	Rossburg
Harper, Fowler V.	(A.B.)	Ada
Katherman, Jerry L.	(B.S.)	Bradford
McGinnis, Wilma Marie	(A.B.)	Ada
Mertz, Merle H.	(B.S.)	Ada
Myers, Helen Elizabeth	(B.S.)	Kenton
Potter, John Austin	(B.S.)	Lima
Purdue, Joseph Olaf	(B.S.)	Christiana, Norway
Richard, George Andrew	(B.S.)	Cherrytree, Pa.
Shea, William Francis	(B.S.)	Holyoke, Mass.
Spellman, Mary Katherine	(B.S.)	Ada
Swearingen, James F.	(B.S)	Wadsworth
Wiseman, Merrill R.	(A.B.)	Ironton

Education

Adams, Golda Olive	(Grad. in Ped.)	Lima
Bailey, Joyce Smith	(Grad. in Ped.)	St. Marys
Bugante, Faustino	(B.S. in Ed.)	Philippines
Barnes, Helen M.	(Grad. in Ped.)	Ada
Blackhurst, Cora	(Grad. in Ped.)	Midland, Mich.
Bowsher, Mable	(Grad. in Ped.)	Lima

Case, Charles	(B.S. in Ed.)	Ada
Corbett, Golda M.	(Grad. in Ped.)	Harrod
Cron, Florence Freda	(Grad. in Ped.)	Piqua
Crosser, Martha M.	(Grad. in Ped.)	Ada
Elliott, Susanna D.	(Grad. in Ped.)	Piqua
Evard, Mildred	(B.S. in Ed.)	Fort Wayne, Ind.
Ford, Berlin. R.	(B.S. in Ed.)	Farmer
Harvey, Clarinel I.	(Grad. in Ped.)	Mt. Victory
Hazelle, Alice M.	(Grad. in Ped.)	Lima
Houpt, Lawrence H.	(B.S. in Ed.)	Upper Sandusky
Jump, Leta S.	(B.S. in Ed.)	Kenton
Kauble, Ruth Derretta	(Grad. in Ped.)	Forest
Lantz, Bernice I.	(Grad. in Ped.)	Ada
Magruder, Marilla Ruth	(Grad. in Ped.)	West Carlisle
Martin, Forest H.	(B.S. in Ed.)	Dublin
Neal, Iva Deen	(Grad. in Ped.)	Round Head
Ober, John B.	(B.S. in Ed.)	Haskins
Osgood, Ola Maud	(Grad. in Ped.)	Lima
Perry, Clarence Logan	(Grad. in Ped.)	Canton
Price, Lizzie K.	(Grad. in Ped.)	Lima
Ritchie, Tom Hall	(B.S. in Ed.)	Vanlue
Roberts, Clara	(B.S. in Ed.)	Bucyrus
Ryder, Harold E.	(B.S. in Ed.)	Chardon
Shaw, Clara Celeste	(Grad. in Ped.)	Rushylvania
Shiveley, Martha Eileen	(B.S. in Ed.)	Grover Hill
Sleesman, Mary Ellen	(Grad in Ped.)	Ada
Smith, Guy Lawton	(B.S. in Ed.)	Ada
Smith, Martin C.	(B.S. in Ed.)	Marietta
Speigle, Kathryn Mae	(B.S. in Ed.)	Ada
Sprain, Goldie	(Grad. in Ped.)	Van Wert
Thurwachter, Rema K.	(B.S. in Ed.)	Boswell, Pa.
Walker, Grover C.	(Grad. in Ped.)	Leipsic
Weldy, Marie	(B.S. in Ed.)	Wapakoneta
Wright, Florence E.	(Grad. in Ped.)	Dennison

Engineering

Ackerman, George D.	(B.E in C.E.)	Lafayette
Alba, Y. Saracho	(B.S. in Ch.E.)	Philippines
Augsburger, Clyde	(B.S. in C.E.)	Beverdam
Balyard, Russel	(B.S. in C.E.)	Convoy
Blose, Howard S.	(B.S. in M.E.)	Greenville, Pa.
Brakes, James B.	(M.E.)	Chicago, Ill.
Breesman, William Harper	(B.S. in M.E.)	Youngstown
Busick, H. Glen	(B.S. in M.E.)	Grover Hill
Cohen, Phillip Louis	(B.S. in C.E.)	Newburgh, N. Y.
Duff, Russell M.	(B.S. in C.E.)	Canton
Dunn, James Kerr	(B.S. in C.E.)	New Brighton
Edwards, George N.	(B.S. in M.E.)	Utica, N. Y.

Elder, Maurice E.	(B.S. in E.E.)	Ada
Ely, Harry A.	(B.S. in M.E.)	Akron
Erdman, Edward A.	(B.S. in E.E.)	Augusta, Wis.
Farstad, Rolfe Francis	(B.S. in M.E.)	Boston, Mass.
Finley, E. Max	(M.E.)	Ada
Frank, Henry	(B.S. in M.E.)	Brooklyn, N. Y.
Gary, Harold James	(B.S. in Ch.E.)	Ashtabula
Golden, Maurice H.	(C.E.)	Hartford, Conn.
Hair, Archie G	(B.S. in Ch.E.)	Bridgeport, Conn.
Hall, Dwight E.	(B.S. in C.E.)	Hamilton
Harmon, Harold	(B.S. in C.E.)	Ada
Hart, Wilbur M.	(B.S. in C.E.)	Peninsula
Heil, Ralph Waldo	(B.S. in E.E.)	Findlay
Hersh, Teddy R.	(B.S. in Ch.E.)	Continental
Ignarra, Otto de Barros	(B.S. in M.E.)	Brazil
Kagaoan, Juan N.	(B.S. in C.E.)	Philippines
Kair, William E.	(B.S. in C.E.)	Mill River, Mass.
Kowaless, M. Hubert	(B.S. in C.E.)	Duquesne, Pa.
Leonard, Edward N.	(B.S. in C.E.)	Huntington, W. Va.
Lindberg, Carl F.	(B.S. in C.E.)	Amityville, N. Y.
Litzenberg, Lewis C.	(B.S. in Ch.E.)	Centerburg
Loehr, Charles Edward	(B.S. in Ch.E.)	Bellefontaine
Mantaras, B. Jr.	(B.S. in M.E.)	Argentina
McCombs, Arnold R.	(B.S. in M.E.)	Ada
Mazulla, Michael Jr.	(B.S. in Ch.E.)	Newburgh, N. Y.
Moasy Lage, Manuel	(B.S. in Ch.E.)	Cuba
Molitor, Fred W.	(E.E.)	Ada
Monsegur, Jose Espina	(B.S. in M.E.)	Cuba
Newmeyer, James H.	(B.S. in E.E.)	Duquesne, Pa.
Noguiera, Manuel de Sousa	(B.S. in E.E.)	Brazil
Osborne, Robert Ambrose	B.S. in Ch.E.)	Van Wert
Ottoni, Augusto B.	(B.S. in C.E.)	Brazil
Pierce, Allen Egbert	(B.S. in E.E.)	Walton, N. Y.
Quintino da Fonseca, Pedro	(B.S. in E.E.)	Brazil
Reidy, George B.	(B.S.) in C.E.)	Buffalo, N. Y.
Ringer, Samuel Ambrose	(B.S. in C.E.)	Canton
Rivera, Alejandro	(B.S. in C.E.)	Philippines
Rice, Paul	(B.S. in E.E.)	New Philadelphia
Ronk, Howard D.	(B.S. in E.E.)	Wallkill, N. Y.
Porter, Elmer Earl	(B.S. in M.E.)	Niles
Proner, Daniel A.	(B.S. in M.E.)	Bronx, N. Y.
Schaaf, Ray D.	(B.S. in E.E.)	Arlington
Schoonover, Merritt E.	(B.S. in E.E.)	Portland, Oregon
Samuels, Cyrus	(B.S. in C.E.)	Utahville, Pa.
Seitz, Sherwood B.	(B.S. in Ch.E.)	Blanchester
Siegel, Harry S.	(B.S. in C.E.)	Newburgh, N. Y.
Sherman, Donald C.	(B.S. in E.E.)	Arcadia
Slonaker, John A.	(B.S. in M.E.)	Avonmore, Pa.
Small, Ray Floyd	(B.S. in C.E.)	Johnstown, Pa.

Spilka, Alfred Charles	(B.S. in C.E.)	Cleveland
Steen, Paul P.	(B.S. in C.E.)	Trenton, N. J.
Tabares Diaz, Jose	(B.S. in E.E.)	Cuba
Taylor, Olaf C.	(B.S. in E.E.)	Arcadia
Ulrey, John Willard	(B.S. in E.E.)	Howard
Vazquez, Ricardo Luis	(B.S. in C.E.)	Mexico
Veverka, Frank	(B.S. in E.E.)	Bayport, N. Y.
Walker, Clarence E.	(B.S. in E.E.)	Jamestown
Wong, Samuel Cheung	(B.S. in C.E.)	China
Winans, Glenn D.	(B.S. in M.E.)	Ada

Law

Balyeat, Hal Donald	(LL.B.)	VanWert
Bustard, John H.	(LL.B.)	Cleveland
Costine, John E.	(LL.B.)	St. Clairsville
Dague, Roy C.	(LL.B.)	Doylestown
Ferrell, Clarence W.	(LL.B.)	New Philadelphia
Eskovitz, Mathew	(LL.B.)	Akron
Fackler, Jacob R.	(LL.B.)	Columbus
Hyde, Edward L.	(LL.B.)	Warren
Jenkins, Benjamin F.	(LL.B.)	Girard
Krawetz, Leo	(LL.B.)	Bridgeport, Conn.
Long, Charles W.	(LL.B.)	Ada
Nickas, Andrew	(LL.B.)	Canton
Orthwein, Carl Frederick	(LL.B.)	Bucyrus
Orthwein, William Edward	(LL.B.)	Bucyrus
Pickering, Josiah Lee	(LL.B.)	St. Clairsville
Souders, Lawrence E.	(LL.B.)	Dawson
Weisend, John LeRoy	(LL.B)	E. Liverpool
Wingardner, Reed M.	(LL.B.)	Harrod
Wharton, Russell Sloan	(LL.B.)	Kenton

Pharmacy

Ashborn, Robert M.	(Ph.G.)	Lima
Bemis, Harry D.	(Ph.G.)	Elyria
Birkhold, Floyd H.	(Ph.G.)	Payne
Blue, Merle Elliott	(Ph.G.)	Carey
Clarke, Orda Allman	(Ph.G.)	Elkins, W. Va.
Credman, Arthur F.	(Ph.G.)	Cleveland
Cunningham, James T.	(Ph.G.)	Ada
Davis, Argyle	(Ph.G.)	Willshire
Dunathan, Harry Virgil	(Ph.G.)	St. Marys
Fenton, Charles Rollin	(Ph.G.)	Chagrin Falls
Barber, Guy	(Ph.G.)	Grover Hill
Gardner, Burke	(Ph.G.)	McLean, Ill.
Hauenstein, Harleh R.	(Ph.G.)	Wooster
Hill, Bernard Wagner	(Ph.G.)	Romney, W. Va.
Hoffman, Charles L.	(Ph.G.)	Leipsic
Hook, Mary	(Ph.G.)	Stockport
Hooker,, Ora Levester	(Ph.G.)	Canton

McNally, Marguerite	(Ph..)	New Castle, Pa.
Perez y Perez, Juan	(Ph.G.)	Cuba
Quintero y Madrigal, Paul N.	(Ph.G.)	Cuba
Richardson, Howard	(Ph.G.)	Spencerville
Robinson, Leonard Henderson	(Ph.G.)	Marietta
Schwartz, Harry Albert	(Ph.G.)	Cleveland
Scott, Carroll Edmund	(Ph.G.)	Akron
Shepard, Dewey Bennett	(Ph.G.)	Crestline
Summers, Paul	(Ph.G.)	Akron
Tremaine, Ceylon Fay	(Ph.G.)	Monroeville
Wagner, Vernon Leland	(Ph.G.)	Hartville
Winters, Erma Lorene	(Ph.G.)	Fort Wayne, Ind.

Commerce

Ater, May Wiseley	(Grad. in Ped. in Com.)	Ada
Barkhurst, Raymond	(Grad. in B'k'g.)	Smithfield
Bosse, Christian P.	(Grad. in B'k'g.)	Jenera
Brewer, Justin	(Grad. in B'k'g.)	Ada
Brown, Ruth Price	(Grad. in B'k'g. and Sten.)	Ada
Cunningham, Isabelle	(Grad. in B'k'g.)	Ada
Dirmeyer, Ruth	(Grad. in B'k'g.)	Ada
Hansen, William	(Grad. in B'k'g., Sten.)	Buffalo, N. Y.
Houser, Marie	(Grad. in B'k'g. and Sten.)	Ada
Hunter, William	(Grad. in B'k'g., Sten.)	Buffalo, N. Y.
Irvin, Nelle	(Grad. in B'k'g. and Sten.)	Lima
Kuenzli, Gladys	(Grad. in Ped. in Com.)	U. Sandusky
Lantz, Bernice	(Grad. in B'k'g.)	Ada
Lemler, Fae	(Grad, in Ped. in Com.)	Bourbon, Ind.
Litzenberg, Wyona Love	(Grad. in B'k'g.)	Ada
Moraes, Heroclides de	(Grad. in B'k'g.)	Pernambuco, Brazil
Motter, Esther	(Grad. in Sten.)	Ada
Nelmark, Helen	(Grad. in Sten.)	Ramsey, Mich.
Reedy, Hildred	Grad. in Ped. in Com.)	Ada
Reese, Marie Bussert	(Grad. in Sten.)	Milton Center
Romick, Maxine	(Grad. in B'k'g.)	Dunkirk
Slusser, Mac	(Grad. in B'k'g.)	Ada
Spiegel, Kathryn	(Grad. in Sten.)	Boswell, Pa.
Stryker, Margaret	(Grad. in Sten.)	Bernardsville, N. J.
Turner, Floyd L.	(Grad. in B'k'g.)	Convoy
Wertheimer, Grace	(Grad. in B'k'g.)	Ada

Music

Baker, Mildred Marion	(Grad. in Piano)	Caledonia
Krebs, Mary Matilda	(Grad. in Piano)	Ada

Expression

Fairchild, Margaret C.	(B.O.)	Mansfield
Bugante, Faustino	(Grad. in Expression)	Philippines
Speer, Freda	(Grad. in Expression)	Dunkirk
Toy, Esther	(Grad. in Expression)	Lima

REGISTER OF UNDERGRADUATES

(Fall Quarer, September 6. 1920—Summer Quarter, 1921, inclusive)

LIBERAL ARTS

Allinger, J. Herman-------Quincy
Ahlefeld, Charles---------Hardin
Baransy, Homer J.-------Hardin
Blowers, Edmund A.--Erie, N. Y.
Baker, Margaret----------Hardin
Brecheisen, Chas.---------Hardin
Bowers, Opal Bernice--Van Wert
Busick, Ralph----------Paulding
Blinn, Pauline------------Wayne
Barnes, Vera I.----------Hardin
Cretors, R. B.-----------Hardin
Clark, Lyman P.---------Hardin
Campbell, Helen-------Cass, Ind.
Cooney, Hazel------------Hardin
Clayton, Genevieve-------Hardin
Davis, Dwight------------Mercer
Davidson, Celeste------Allen, Ind.
Eversole, Lucinda---------Hardin
Funkhouser, Clarence P.------
Washington, Ind.
Fusco, James Edward---Trumbull
Flordia, Hesse G.---------Hardin
Fisher, Robert Allen--------Stark
Friedley, Dorothy---------Hardin
Goodman, Ben T.---------Seneca
Gray, Ralph ------------Holmes
Gallapoo, Ralph----------Hardin
Greer, Dorothy Helen-----Hardin
Henwood, George Hill--------
Wayne, Mich.
Howe, Cecil G.---------Cuyahoga
Heffner, Robt. A.-----------Allen
Hawver, Harley D.-------Paulding
Harrod, Jesse------------Hardin
Herier, Robert B.-----------Clark
Horn, James Arthur----Highland
Harris, Wm. P.--------------Erie
Hullinger, Mildred--------Hardin
Jameson, Sanford---------Hardin
Karns, Frank H.-----------Wood
Klinger, Carmen--------Paulding
Klinger, Ruby ----------Paulding
Lorenz, Theo. E.--Litchfield, Conn.

Matheny, Walter---------Hardin
Moorman, Alan W.--------Hardin
Miller, Chas. Stanley------Hardin
Meredith, Harold J.------Warren
Minion, Lester R.------Cook, Ill.
Mathias, Edgar H.------Hamilton
Maffett, Richard S.--------Hardin
McGinnis, Dorothy E.--Van Wert
Mealy, Minnie Helen--------
Harrison, W. Va.
Matteson, Ellen---------Wyandot
Poling, Paul O.-----------Hardin
Poole, Russell W.-------Williams
Poling, Conwell-----------Hardin
Pickering, ,Roy----------Belmont
Pfau, Virgil C.-------------Henry
Pollock, Frank LaVerne---Monroe
Pond, James Washington Van Wert
Porter, William--------------Allen
Powell, Beulah------------Hardin
Runkel, Luke-------------Hardin
Reed, McLean ----------Hancock
Roads, Clinton Glen-----Highland
Raudabaugh, Audrey-----Auglaize
Runser, Edna-------------Hardin
Spry, William -----Wayne, Mich.
Storer, Thelma------------Hardin
Stuart, Ellis H.-----------Hardin
Schneider, Chas. O.------Monroe
Smith, Willis E.-------------Allen
Swisher, H. L.-------Champaign
Slow, James Edgar---Saline, Ill.
Smith, Nolan--------------Hardin
Stephens, Raymond------Auglaize
Swisher, Ralph----------Williams
Southwick, Gordon--------Marion
Smith, Donald O.----------Miami
Swearingen, James Finley-Medina
Speese, Geo. Arthur--------Union
Shank, Ruth--------------Hardin
Snyder, Edith-------------Hardin
Taylor, Bernard C.----Champaign
Taylor, Chas.--------Fayette, Pa.

Taylor, Chas. C.	Stark
Thompson, James Eearl	Westmoreland, Pa.
Tullis, Gerald N.	Allen
Van Horn, Luke	Hardin
Wagner, J. A. B.	Gallia
Wiseman, O. M.	Lawrence
Wenger, Byron	Stark
Wyman, Robert	Ashtabula
Wahl, Irene	Paulding
Wilson, Ruth	Hardin
Warren, Lois	Hardin
Wiseley, Carrie M.	Hardin
Young, Lynn	Hardin

EDUCATION

Ault, Waldo C.	Van Wert
Adams, Wm.	Marion
Andrews, James	Mercer
Ammann, Peter	Coshocton
Allender, A. M.	Hancock
Alspach, Marie	Hancock
Armentrout, Elma	Logan
Arn, Maggie	Hardin
Arthur, Mable	Madison
Adams, Golda	Allen
Adams, Letitia	Erie
Baker, Jennie	Wood
Baning, Grace	Auglaize
Black, Roy	Clinton
Bailey, E. Lehr	Shelby
Baughman, Edwin A.	Monroe
Boley, Chas.	Mercer
Brewer, Walter	Wyandot
Baldwin, Vivian	Hardin
Basore, Martha	Hardin
Bice, Clara	Ottawa
Basil, Geneva	Van Wert
Borden, Erma	Van Wert
Basil, Velma	Van Wert
Bottorf, Mildred	Ashtabula
Boutwell, Rosa	Hardin
Bearinger, Cecile	Hardin
Baransy, Eulah	Hardin
Barrett, Jessie M.	Highland
Baldwin, Eunice	Paulding
Bell, Mrs. Hazel	Hardin
Brock, Lela Gwen	Mercer
Beam, Lillian	Darke
Beal, Florence	Richland
Bright, Mildred	Hancock
Bame, Mabel	Seneca
Bowsher, Mabel	Allen
Baker, Verda	Hardin
Brian, Velma	Paulding
Barrington, Mabel	Auglaize
Birt, Nellie	Darke
Barton, Vera	Licking
Bowyer, Faun	Allen
Born, Margaret	Allen
Blair, Gladys	Crawford
Brokate, Lucile	Ottawa
Blatt, Alice	Ottawa
Blatt, Carrie	Ottawa
Bartlett, Bessie	Delaware
Blank, Emma	Allen
Baker, Mamie	Hardin
Busick, Burnice	Paulding
Barnes, Vera	Hardin
Bailey, Winona	Auglaize
Baker, Fairy	Hardin
Bowers, Edith	Hardin
Burgett, Ruth	Clermont
Bowsher, Erma	Allen
Bailey, Ruth	Allen
Cronbaugh, Arthur B.	Hardin
Coats, Ora	Mercer
Cook, Marion J.	Wyandot
Chalfinfi Homer	Hardin
Coey, Wm. F.	Ross
Cotterman, B. W.	Allen
Chambers, Geo.	Scioto
Cloore, Vivian B.	Allen
Curl, Catherine	Logan
Coffin, Eva	Auglaize
Cox, Dorothy	Hardin
Cox, Viola M.	Hardin
Cantrell, Cleo	Hardin
Chaney, Ruth	Clark
Coats, Elizabeth	Hardin
Conklin, Hazel	Delaware
Colmery, Annamanda	Logan
Cady, Lucy B.	Washington
Collins, Lavon	Hardin

Clevenger, Thelma	Henry
Coate, Garnet	Hardin
Cotter, Bernice	Van Wert
Clark, Zona	Hardin
Crawford, Alma	Auglaize
Crowe, Mary	Scioto
Clapsaddle, Mabel	Hardin
Cox, Mary R.	Cuyahoga
Cloyd, Florence	Summit
Carrier, Mabel	Marion
Costamien, Helen	Wyandot
Drake, Susie	Lorain
Dunson, Georgia	Hardin
Denius, Harry	Lorain
Dispennette, Wm. E.	Licking
Dehus, Louise	Ross
Dehus, Dolores	Ross
Diedrick, Mrs. Edith	Lorain
Day, Mrs. Mae	Marion
Durkin, Ivalue	Allen
Davis, Blanche	Richland
Diehl, Laura	Hocking
Dixon, Opal	Logan
Dobbins, Hazel	Hardin
Davids. Vernice	Ottawa
Davis, Mary Allena	Scioto
Duvall, Lula	Auglaize
Davis, Helen	Adams
Davis, Margaret	Scioto
Dillon, Mina E.	Seneca
Elder, Helen	Logan
Elder, Nova	Logan
England, Grace	Hardin
Ewing, Annah	Hardin
Ewing, Miriam	Hardin
Eakin, Ellen	Pickaway
Ehrman, Aldine	Allen
Evans, Eva	Hardin
Elwood, Mary	Ashtabula
Elwood, Nancie	Ashtabula
Elliott, Irene	Pike
Ewers, Carrie	Richland
Frissinger, Lowell	Mercer
Fishbaugh, Anthony	Mercer
Foltz, Don A.	Hancock
Foulk, L. Edw.	Paulding
Fisher, Mary Ellen	Mercer
Fast, Nellie	Paulding
Freeman, Doris	Marion
Farrow, Mary	Ashtabula
Fox, Vida L.	Monmouth, N. J.
Funk, Enid L.	Paulding
Fawn, Ethel	Cuyahoga
Force, Emma	Wayne
Fattlar Lenna	Madison
Fisher, Adah	Mercer
Fisher, Opal	Hardin
Fahl, Mona	Hancock
Fulkerson, Lucie	Allen
Fisher, Fannie	Mercer
Flinn, Louise	Hardin
Fast, Annette	Paulding
Foster, Lorena	Hancock
Gallman. J. W.	Mercer
Gegenheimer, Ida	Crawford
Gerhart, Clayton	Crawford
Garwood, Merwin	Hancock
Garwood, Guy	Hancock
Grandstaff, Harry E.	Morgan
Goble, Clarence	Paulding
Gray, Ruth	Holmes
Geiger, Ruth	Hardin
Germann, Stella	Van Wert
Glenn, Helen	Pike
Glenn, Clare	Pike
Garmon, Lavonne	Hardin
Gigandet, Mary	Shelby
Grady, Teresa	Allen
Heiby, Ralph	Mercer
Henning, Caroline	Auglaize
Horton, Donald	Richland
Hole, Chas. E.	Paulding
Henney, Wm. F.	Van Wert
Hebb, Ray	Paulding
Hebb, Roy	Paulding
Howard, Helen	Hancock
Hall, Vaughn	Mercer
Huffman, Wayne	Hancock
Houpt, L. H.	Wyandot
Hanselman, B. L.	Jackson
Hoel, Hazel	Mercer
Hallier, Luella	Ottawa
Howard, Orpha	Darke
Houchin, Naomi	Logan
Hall, Viola	Hardin
Hanna, Essie	Logan
Horton, Gladys	Union
Hover, Faye	Hardin

Houser, Mary	Hardin
Hughes, Mary C.	Putnam
Huggett, Irene	Hardin
Hatcher, Mattie	Logan
Harter, Lottie L.	Champaign
Harris, Anna M.	Hardin
Hoel, Gladys	Mercer
Hockaden, Edith	Scioto
Hazelbacker, Myrtle	Scioto
Hershner, Faye	Crawford
Harvey, Khiva	Hardin
Hayden, Zee	Hardin
Hecker, Twila	Wyandot
Hatcher, Agnes	Hardin
Hunsicker, Opal	Hardin
Huf, Clara M.	Franklin
Halloran, Daisy	Erie
Hinklin, Elizabeth	Marion
Jones, Mildred	Allen
Jones, Dorothy	Hardin
Jones, Edna	Scioto
Kissling, Lacy	Hardin
Keysor, Edgar	Paulding
Kalp, D. Eli	Westmoreland, Pa.
Kinnison, Wm.	Mercer
Knox, Lenore	Pickaway
Klinger, Mildred	Hardin
Klingler, Wilma	Hardin
Klingler, Agnes	Hardin
Klingler, Dorothy	Hardin
Kidwell, Mrs. M. D.	Hancock
Kidd, Mamie	Allen
Kelly, Mabel	Hardin
Kramer, Iness	Allen
Knisley, Myra	Pike
Kear, Charlotte	Hardin
Kauble, Mary	Hardin
Kilbride, Katherine	Erie
Killoran, Esther	Allen
Leininger, Walter E.	Logan
Litzenburg, L. C.	Knox
Lyons, Ralph L.	Mercer
Lutz, Florence A.	Hardin
Livingston, Ralph	Hardin
Law, Verena	Hardin
Lynde, Mrs. Maurice	Oceola, Mich.
Lash, Mary E.	Crawford
Lilies, Leota	Hardin
Lafferty, Mae	Allen
Lutz, Ollie	Wyandot
Lowe, Ruth	Hardin
Long, Velma	Harrod
Leatherman, Ruth	Allen
Latimore, Gladys M.	Hardin
Lea, Mrs. Lillie	Delaware
Long, Mildred E.	Crawford
Latham, Helen	Hancock
Lininger, Mary V.	Mercer
Lyons, Julia	Allen
Mason, C. E.	Allen
Miller, Elinore	Union
McWilliams, Paul	Hardin
Minier, Ora	Erie
Musser, Louise	Auglaize
Money, Cloyd V.	Jay, Ind.
Morton, Harry W.	Hamilton
McCollister, Ralph	Ross
McGuffey, H. C.	Hardin
McCarty, Daniel L.	Allen
McCleary, C. W.	Allen
Milligan, Harry E.	Darke
Maffett, Otto H.	Hardin
Martin, Forest	Franklin
McClain, Floyd	Wyandot
Meyers, Ruth	Tuscarawas
Morris, Virginia K.	Putnam
Moritz, Hattie	Scioto
McDonald, Kathleen	Coshocton
Marshall, Ruth	Butler
Mason, Anna Martha	Paulding
McVay, Catherine	Shelby
McKinney, Beatrice	Allen
Moore, Mrs. Emma	Allen
McRill, Edna	Hancock
Mead, Irene D.	Paulding
McElroy, Madeline	Hardin
Marshall, Devona	Hardin
McCrea, Mrs. Trella	Dunkirk
Mohr, Susie	Van Wert
McElroy, Helen	Hardin
Miller, Ruth I.	Hardin
Meyers, Adaline	Henry
Martin, Jennie B.	Delaware
Matheny, Arlie	Hardin
Murphy, Faye	Pike
Martin, Mrs. Forest	Wood
McCoy, Doris	Allen
McCoy, Dessa	Madison

Martin, Imogene	Hardin
Morrison, Helen	Hardin
Moore, Gertrude	Allen
Northup, Verne	Hardin
Narragon, Frederick	Erie
Norris, Letha	Hardin
Nickell, Norma	Auglaize
Nau, Golda	Hardin
Nickell, Dorothy	Auglaize
Nye, Stella	Wyandot
Ober, John B.	Wood
Newman, Lillian	Scioto
Osgood, Ola	Allen
Oberly, Frieda K.	Hardin
Owens, Claribel	Allen
Orians, Mary	Wyandot
Price, Hazel	Allen
Price, Florence	Allen
Price, Russell	Van Wert
Parks, Faye Edw.	Crawford
Pees, Helen	Hardin
Pugh, Gladys	Miami
Parlette, Opal	Allen
Pond, Velmah	Paulding
Plummer, Mildred	Hardin
Piper, Fern	Wayne
Parsell, Ethel	Hardin
Price, Georgia	Wood
Price, E. Marguerite	Hardin
Platt, Belle	Mercer
Porter, Hazel	Marion
Parker, Naomi	Allen
Quay, Katherine	Crawford
Ritchie, T. H.	Hancock
Royer, Wilbur E.	Logan
Richey, D. Paul	Delaware
Ridgway, Olive L.	Hardin
Ries, Marcella	Hardin
Ries, Marie	Hardin
Ridenour, M. Florence	Allen
Ramey, Virgie	Delaware
Roush, Jeannette	Fayette
Roush, Josephine	Fayette
Ream, Anna E.	Hardin
Rounds, Mrs. Mae	Hardin
Ramer, Marie	Hardin
Rockey, Lela V.	Hardin
Robinson, Dorothy	Allen
Rockwell, Zelma	Hardin
Rogers, Bessie	Mercer
Runkle, Ethyl S.	Ross
Rose, Hope	Hardin
Roberts, Anne	Madison
Reilly, Drusilla	Allen
Schilling, Henry J.	Wyandot
Sherrick, H. L.	Allen
Steinman, Lester J.	Hardin
Sleesman, Mary	Hardin
Smith, Lewis R.	Scioto
Smith, Martin C.	Washington
Smith, Jessie D.	Hardin
Steinman, Glenna	Hardin
Scheider, Frances	Union
Snider, Rae	Paulding
Shulaw, Clarice	Allen
Smith, Daisy I.	Allen
Sieg, Ruth	Hardin
Schmeltz, Barbara	Lucas
Smith, Florence	Hardin
Schmidt, Helen	Wyandot
Sousley, Blanche	Hardin
Strahm, Mamie	Hardin
Sheridan, Carol	Marion
Schaeffer, Louise	Hardin
Rolston, Henry	Hardin
Rogers, Helen	Tuscarawas
Robinson, Dorothy	Jefferson
Robinson, Irene	Jefferson
Sites, Geo. A.	Washington, Md.
Switzer, Letha	Hardin
Schweinfurth, Martha	Marion
Smith, Mrs. P. C.	Williams
Sproul, Vera	Wyandot
Simon, Helen	Putnam
Shadley, Frances	Hardin
Shadley, Ruby	Hardin
Stine, Maude	Wayne
Shaw, Clara	Logan
Shoup, Eugenie	Tippecanoe, Ind.
Sinkey, Lela	Delaware
Sprain, Goldie	Hardin
Slemmer, Dorothy	Wyandot
Stauffer, Helen	Hardin
Sleesman, Mary	Hardin
Switzer, Belva	Hardin
Shuster, Lucile	Hardin
Stalter, Helen C.	Wyandot
Stull, Vera	Richland

Shaw, Ruth L.------------Hardin
Simpson, Helen ------Tuscarawas
Teal, Fred-----------------Allen
Truax, Mrs. Cora-----------Logan
Taylor, Martha---------Champaign
Taylor, Delbert----------VanWert
Tracy, Duke ---------------Knox
Tipple, Ray-------------Delaware
Terrell, Cyrus W.-----------Perry
Thompson, Violet--------VanWert
Turner, ella M.---------Mahoning
Trumbo, Ethel Mae--------Marion
Temple, Alice-------------Hardin
Taylor, Ida--------------Paulding
Ulrich, Geo. E.----------Wyandot
Von Kaenal, Fred--------Crawford
Vogel, Ralph------------Wyandot
Van Atta, Ernest----------Hardin
Vassar, Lela--------------Hardin
Von Dorn, Opal ------------Wood
Van Dorn, Ruth------------Wood
Wolfley, Paul-------------Hardin
Wood, Ray G.-------------Athens
Winegardner, Arthur--------Allen
Windle, Joseph -----------Putnam
Wade, Van Dola ---------Richland
Williams, Esther ----------Hardin
Wahl, Orlea-------------Paulding
Willoughby, Charlotte ----Licking
Wollam, Mildred ----------Hardin
Welker, Opal--------------Hardin
Wolfe, Grace -------------Hardin
Welty, Olga ------------Crawford
West, Lydia --------------Mercer
White, Zula-------------Wyandot
West, Eugenia---------Tuscarawas
Williams, Helen-----------Hardin
Wilcox, Martha -----------Marion
Wikle, Delilah-------Montgomery
Whitmer, Nola--------------Allen
Wilson, Mary V.-----------Hardin
Wright, Florence------Tuscarawas
Wolfe, Alice M.-----------Hardin
Williams, Elsie B.---------Hardin
Woods, Sigrid ------------Hardin
White, Elizabeth A.------Jefferson
Williams, Flossie ----------Hardin
Walsh, Helen--------------Scioto
White, Edna---------------Scioto
White, Clara---------------Scioto
White, Bertha -------------Scioto
Wolff, Lillie------------Richland
Wright, Lucille-------------Allen
Weldy, Burnice---------Van Wert
Weldy, Eunice----------Van Wert
Welsh, Evalyn ------------Hardin
Young, Bernard-----------Mercer
Young, Dee---------------Mercer
Yeazel, Evalyn---------Champaign
Yoder, Nelle ---------------Wood
Yoakum, Opal--------------Allen
Yentzer, Edna-----------Wyandot
Yentzer, Ethel----------Wyandot
Zahller, Christian-----------Logan

ENGINEERING

Allinger, Neil J.-------------Allen
Ahman, Edward----Allegheny, Pa.
Achaval, Ricardo------Philippines
Armstrong, Wm. H.--Mercer, N. J.
Alspaugh, Joseph -----------Allen
Allen, Robert------------Auglaize
Abbott, Lionel E.-------Hamilton
Allcroft, James------Essex, N. J.
Aldrey, John L.---------Venezuela
Adler, Frank J.--Franklin, Mass.
Abel, John------------Erie, N. Y.
Alzona, Pablo --------Philippines
Angulo, Manuel ---------Columbia
Ascarrunz, Geo. A.--------Bolivia
Banks, Alfred W.-----Kings, N. Y.
Burg, Horace Edw.------York, Pa.
Barnum, Lester T.-------------
Berkshire, Mass.
Bird, Everett L.-----------Hardin
Bausmith, Wm. Emerson-Hamilton
Braglio, Chas. ----Armstrong, Pa.
Beyer, Forrest W.----------Perry
Buckwalter, Rudy E.-----Mahoning
Bell, Wm. E.---------------Perry
Broadhurst, Chas. T.-----------
Passaic, N. J.
Brown, James B.--Steuben, N. Y.
Bochinski, Felix A.-Wayne, Mich.

Brockerman, Herman ------Logan
Blaiklock, Thos.------Essex, N. J.
Boltz, Wilbur------------Auglaize
Butgos, Manuel---------Porto Rico
Bastar, Richard-----Allegheny, Pa.
Broadstone, Ralph L.--------Clark
Brown, Russell -----------Summit
Bauman, Edw.--------------Lorain
Booker, Ralph W.-Franklin, Mass.
Berta, A. H.-------Allegheny, Pa.
Brownell, Frank B.--Suffolk,N. Y.
Buell, Harold H.-------Wshington
Bortnick, Frank---Fairfield, Conn.
Bauer, Carl ---------Montgomery
Bates, Geo, P.--Chautauqua, N. Y.
Bugnon, Marciel R.-----Argentine
Bendall, Austin E.-------Cuyahoga
Bolquerin, Ralph A.---Philippines
Barney, Ernest E.-------Colombia
Brown, Harmon A.------------ Cattaraugus, N. Y.
Brown, Leif C.---------Sandusky
Belen, Adele A.--------Philippines
Cummings, Lloyd W.---------- Onondago, N. Y.
Clark, Chas. H.---------Van Wert
Cone, James H.-----iddlesex, Conn.
Crooks, Harlow-----------Portage
Cueller, Arthur------------Bolivia
Cookingham, Melvin -------Hardin
Calahan, Foster -----------Hardin
Clapper, Ronald-------Muskingum
Clymer, Gale--------------Hardin
Carhart, Clarence-Berkshire, Mass.
Carlisle, Earl Luster---------- Hillsboro, W. Va.
Close, Leland Marcus-------Wayne
Coppersmith, Wm.---------Hardin
Chambers, David F. -------Seneca
Clevenger, Alfred----------Hardin
Carver, Henry E.-Hampden, Mass.
Cato, Willard C.------------- Chautaqua, N. Y.
Cripps, Glenn D.------------- Crawford, Mich.
Cottrell, Thos. S.------------ Monmouth, N. J.
Caldwell, Robert----Cambria, Pa.
Coene, Harry---------Beaver, Pa.
Chaney, Harmon-------Columbiana
Cobb, Donald F.----------Summit
Caffee, Horace ------------Hardin
Cotner, J. Leroy----------Hardin
Chacey, Lloyd A.---------Summit
Castro, Santos---------Porto Rico
Cook, Fred W.-------Aiken, S. C.
Cratty,, Clark---------Butler, Pa.
Conley, John----------Erie, N. Y.
Cotner, Wilbur C.-----------Allen
Durnell, Byron P.---------Hardin
Dehus, Howard--------------Ross
Diemer, Irving C.-------Cuyahoga
Decker, Blair L.-----Cambria, Pa.
Duff, Raymond E.-----------Stark
Day, H. Kenneth--Washington, Pa.
Dispenza, Samuel----Erie, N. Y.
Decker, Ford J.-----Monroe, N Y.
Detlor, Chas. G.-----------Monroe
DeLong, Clyde-------------Butler
Darnell, Robert J.---------Hardin
Diebler, Milton----------Crawford
DeHaven, Paul C.--Lancaster, Pa.
Drury, Harry S. Jr.---------- Armstrong, Pa.
Erwin, J. Raymond-Allegheny, Pa.
Eley, Ray L.--------------Hardin
Erdman, Edw. A.-Eau Claire, Wis.
Essex, Webster B.----------Stark
Enrico, Jacinto A.-----Philippines
Ellaby, Chas.------Jefferson, N. Y.
Eshbaugh, W. Paul--McKean, Pa.
Earl, Elton O.------------Portage
Ellis, Samuel-----------Mahoning
Eames, David C.------Denver, Col.
Foeller, Serg.-------Wayne, Mich.
Filho, Ildefonso-----------Bolivia
Farnsworth, Hugh D.-----Trumbull
Ferrandiz, F. B.-------Philippines
Francis, Frederick O.---Erie, N. Y.
Fox, Ethan O.------------Ottawa
Fork, Desmond----------Sandusky
Furst, Hubert--------Mifflin, Pa.
Fulmer, Ward G.-----------Stark
Frederick, Adam ------------- Westmoreland, Pa.
Fisher, Parke O.---------Richland
Glancy, Chas. C.--------Van Wert
Garner, Edison W.-------Jefferson

German, William---Monroe, N. Y.
Groves, Robert Geo.----------- Monroe, N. Y.
Gard, Lester H.------------Clark
Gallapoo, Orren----------Paulding
Gilpen, Guy M.-------Adams, Ind.
Greer, Robert C. Jr.----------- Philadelphia, Pa.
Gottleib, Manious------York, Pa.
Gilfillan, Robert B.---------Darke
Gilbride, Robt.--Lackawanna, Pa.
Gehr, Ralph---------Franklin, Pa.
Gehr, Wayne H.-----Franklin, Pa.
Gomulka, John-Montgomery, N. Y.
Grinnell, Russell---Macomb, Mich.
Gee, Chas. T.--------------China
Groves, Glendon---------Sandusky
Ganoe, Claude M.----------Mercer
Groves, Ernest R.--Ludlow, N. J.
Hover, Ernest W.-------Mahoning
Howard, Donald------------Darke
Holman, Carl V.-----------Hardin
Hay, Lemuel ---------------Allen
Harman, Wm. W.-----Kings, N. Y.
Haney, Howard L.---------Hardin
Hoyman, Harold ---------Fairfield
Hole, Chas. E.-----------Paulding
Hammett, Ralph-------Erie, N. Y.
Hilfinger, Albert M.--Beaver, Pa.
Harty, Wm. P.---------Allen, Ind.
Hall, Geo. ---------------Portage
Harvey, Roy E.-----------Hardin
Henning, Lee R.-------------Wood
Hilton, Lewis----Hampden, Mass.
Henke, Chas.----------Erie, N. Y.
Halter, Gale L.-------------Allen
Hukill, J. Knight--Newcastle, Del.
Horowitz, Theo.----New York, N. Y.
Imming, Allen F.-----Kings, N. Y.
Johnson, Victor--------Potter, Pa.
Jackson, Herbert A.----Bay, Mich.
Johnson, Wallace F.------------ Steuben, N. Y.
Janke, Walter E.-----Huron, Mich.
Jones, Arlie --------------Mercer
Johns, Ernest ------------Summit
Johnson, Philip H.------------- Middlesex, Conn.
Jameson, Merritt -----------Wood
Jones, Clarence H.---------Huron
Jepson, Morris--Cattaraugus, N. Y.
Kierman, John ------------Greene
Knupp, Ralph W.-----------Stark
Knapp, I. Walter------Mahoning
Kinnison, Errett-----------Greene
Kuhns, Stanley R.--Jefferson, Pa.
Kuszmaul, Earl A.---------Summit
Kille, Lindley A.------Columbiana
Linn, Edw. V.--------Mercer, Pa.
Leach, Chas. H.------------Butler
Lorini, Hector-------------Bolivia
Lynde, Maurice-----Oceola, Mich.
Liechti, Walter--Washington, Pa.
Lesnowski, Francis---------Poland
Lamb, Paul P.------South China
Lewis, Thos. J.----------Harrison
Lavetan, S. M.---------------York
Lewis, Amos W.----Ingham, Mich.
Lundberg, Albert T.----------- Berkshire, Mass.
Lord, Gordon C.-------Potter, Pa.
Lieska, Gustav F.---------Ottawa
Lynde, Walter L.-------------Stark
Lee, Lester ---------------Hardin
Lee, S. Y.-----------------China
LeVine, Aaron-----Orange, N. Y.
Lundberg, E. M.--Berkshire, Mass.
Liano, Manuel---------Porto Rico
Leathers, Lawrence D.-----Shelby
Lawrence, Parley---------Hancock
Lindersmith, Paul--------Williams
Miser, Darl J.-----------Jefferson
Love, Wm.--------------Guernsey
Miller, Wm. Lee----------Ottawa
Mayberry, Ira-----Lawrence, Pa.
Macys, Vincent----------Cuyahoga
Martin, Donald----------------- Northumberland, Pa.
McVicker, Earl------Kendall, Ill.
Mayer, A. L.----------York, Pa.
Morgan, Donald-----Luzerne, Pa.
Matthias, Chas. M.-----Clinton, Pa.
Moreland, Lawrence S.--------- Chemung, N. Y.
Martiny, Howard J.----------- Cattaraugus, N. Y.
Marx, Lester------Monroe, N. Y.
Marion, James----Armstrong, Pa.

Mumma, Donely H.	Allegheny, Pa.
Minervino, Yoas	Brazil
Miller, Bernard S.	Mercer, N. J.
Miller, Ralph S.	Cuyahoga
Marcayda, Jose V.	Cuba
Miller, Adam F.	Orange, N. Y.
Miller, Harold C.	Logan
Morgan, Chas. R.	Lucas
McIntire, Norman	Fayette, Pa.
Morrison, Harold K.	Delaware, Ind.
McInturff, Paul K.	Champaign
McConnell, G. D.	Tuscarawas
Mendoza, Hilarion	Philippines
Nelson, David A.	Middlesex, Mass.
Nesbet, Clarence K.	Barry, Mich.
Navidad, Jose	Philippines
N'oel, Wilson R.	Stark
Nash, Wm. Nelson	Hardin
Ogan, Emil R.	Guernsey
Ours, D. Reed	Marion
Osterhout, W. L.	Orange, Mass.
Palomo, Jos. A.	Cuba
Prudent, Henry J.	Clermont
Page, Warde R.	Champaign
Plympton, Ralph	Franklin, Mass.
Pritchard, Percy	Cuyahoga
Palmer, Homer K.	Chemung, N. Y.
Patton, Walter H.	Huron
Prieto, Laurens I.	Mexico
Pugh, Morton G.	Miami
Prichard, Llewellyn	Portage
Powell, Frank G.	Ashtabula
Parker, Chas. Wayne	Allegheny, Pa.
Pelaez, Abel	Columbia
Pfifferling, John	York, Pa.
Ponsetto, Jos. L.	Westmoreland, Pa.
Peterman, H. A.	Crawford
Pixler, John	Holmes
Perkins, Paul W.	Potter, Pa.
Phillips, Howard D.	Newcastle, Del.
Reynolds, John	Fairfield, Conn.
Rodas, Jose	Porto Rico
Robinson, J. T.	Jefferson, Pa.
Robinson, B. C.	Cuyahoga
Rosenberger, Chas. K.	York, Pa.
Richey, Floyd E.	Orleans, La.
Rathbun, Dean M.	Chemung, N. Y.
Russell, James L.	Paulding
Rodenberger, Frank A.	Hardin
Rogers, Donald K.	Blair, Pa.
Robinson, O. H.	Lucas
Robertson, Howard N.	Carroll
Rothrock, Geo.	Hardin
Rumbaugh, Dale J.	Westmoreland, Pa.
Rodabaugh, Warren	Hardin
Roeder, Dale	Allen
Rumel, David E.	Darke
Rope, Chas. D.	Summit
Roberts, Richard G.	Allen
Reyes, Zailo R.	Philippines
Reidy, Geo. B.	Erie, N. Y.
Scofield, Leonard W.	Steuben, N. Y.
Stoker, E. F.	Auglaize
Sese, Eustaquio J.	Philippines
Stalder, Harold F.	Hardin
Shanly, Lorne	Miami
Slater, Galen	Richland
Schurr, Edison L.	Shelby
Savage, Philip A.	Clinton
Schmuck, Roland	York, Pa.
Swift, Chas. F.	Ashtabula
Stormer, Paul	Venango, Pa.
Saramento, J.	Hardin
Shultz, Ross	Fulton
Stiffier, Ralph L.	Blair, Pa.
Stark, Edgar	Erie, N. Y.
Schaum, Wm. H.	Wayne
Snedden, Tillman R.	Lawrence, Pa.
Senior, Arthur H.	Venezuela
Shires, Luke	Lycoming, Pa.
Stein, A. C.	Stark
Snyder, W. C.	Orange, N. Y.
Sickles, Lloyd G.	Brown, Wis.
Schafer, R. E.	Belmont
Shoup, J. H.	Armstrong, Pa.
Skinner, Ransom	Chautauqua, N. Y.
Silverman, Max	Kings, N. Y.
Scott, Carl O.	Van Wert
Slan, Francis M.	Hampden, Mass.

Shontz, John G.-------Mercer, Pa.
Stich, Francis A.--------Hamilton
Sleesman, Geo.------------Hardin
Smith, Wm. A.------------Canada
Schaeublin, Lowell F.--------Allen
Stoker, E. F.------------Auglaize
Snyder, Taylor M.---------Shelby
Spotts, Merhyle F.---------Marion
Sukup, I. A.------------Crawford
Shaeffer, Geo. D.-----------Allen
Sonday, Eugene---------Crawford
Stearns, Cloyde L.--------Morrow
Turner, Horace R.-----Ingham, Pa.
Thompson, Jas. K.-----Beaver, Pa.
Thoboben, W. H.--------Cuyahoga
Tejada, Chas--------------Bolivia
Turner, W. Lawrence----Belmont
Talbot, Porter --------Washington
Thompson, Jesse------------Allen
Treece, Elmer D.---------Hancock
Thompson, Wm. L.-------Erie, Pa.
Urban, Era--------------Hancock
Urich, Fred B.--------------Allen
Upp, Arthur ------------Williams
Vallancourt, A. J.---Fairfield, Conn.
Vander Ley, A.------------Brazil
Vogt, Kenneth L.---------Hardin
Vasquez, Luis S.----------Mexico
Van Houten, Ralph----Fulton, Ill.
Vincent, Henry L.---Pierce. Wash.
Vaughn, Myron E.-----Dona, Mass.
Watson, Alex R.---------------
Washington, Pa.
Wood, Fremont W.------Ashtabula
Waterloo, Victor---Allegheny, Pa.
Wander, Ronald-------------Knox
Whipkey, Clark E.---Somerset, Pa.
Winokur, Solomon-------Cook, Ill.
Witzler, Howard F.--------Wood
White, Benson H.-----------Allen
Winans, Glen D.-----------Hardin
Wethered, John--Webster, W. Va.
Wolf, David J.------------Ottawa
Ward, Hall--------Franklin, Mass.
Welker, Milo E.-----------Hardin
Witchey, Ralph W.---Clearfield, Pa.
White, John G.---------Mahoning
Wolfe, Clyde L.------------Perry
Wells, John E.-----------Hardin
Wilkes, Chas. Edw.------------
Middlesex, Conn.
Warren, Chas. T.-----Mobile, Ala.
Wenzel, E. G.--------------Peru
Yalmer, B. E.------------Summit
Ysnaga, John A.-------------Cuba
Zeigler, Geo.-----------Champaign
Zugsda, Geo. -----------Cuyahoga

LAW

Atwood, Charlton------Trigg, Ky.
Armstrong, H. P.-----------Adams
Bauknecht, John E.-------Belmont
Blank, Carl M.--------------Allen
Brubaker, Leroy D.-----Van Wert
Brown, Carl C.------------Summit
Bow, Frank T.--------------Stark
Berka, Geo. P.----------Cuyahoga
Brady, Leslie----Washington, Pa.
Behrens, Ferd G.-----------Henry
Bow, Homer ---------------Stark
Brown, Kenneth ---------Franklin
Banks, Richard L.---------Hardin
Cox, Albert N.------------Hardin
Crist, Wm. E.------------Defiance
Cooper, James ----------Mahoning
Collier, James ----------Lawrence
Donithen, Howard A.-------Marion
Davis, Chas. M.-----------Summit
Dalton, Neal M.-------Montgomery
Dumbould, Hazel ----------Hardin
Fairall, L. L.----------Muskingum
Granfield, John J.-Hampden, Mass.
Graybill, Herbert C.----------Stark
Graham, Ernest B.----------Knox
Guilinger, Banks E.-----Mahoning
Harper, Fowler V.---------Hardin
Isham, Donovan D.--------Hardin
Irish, Wm. C.-------------Licking
Jones, Edw. W.-------Tuscarawas
Johnson, Wm.----------Van Wert
Johnson, Eunah--------Van Wert
Kalbfleisch, G. E.--------Richland
Kunkel, Jos. M. --------Cuyahoga

Leech, Proctor N.------Coshocton
Lipps, Clement-----------Summit
McCorkhill, Chas. G.------Carroll
Marz, Clarence ------------Stark
McKean, Kenneth J. ----Trumbull
Montville, Hurst----------Hardin
McVicker, Dewey B.------Wayne
Misamore, Clyde M.-----Hancock
Monti, Virgil T.--------Jefferson
Nickas, Andrew------------Stark
Nichols, Robert J.-------Richland
Osmun, John B.----------Marion
Patton, Carter -----------Marion
Pealer, Arthur B.-------Richland
Pellettieri, Frank V.----Cuyahoga
Paterson, Chas. A.-------Hardin
Randall, Carl-----------Erie, Pa.
Reyes, Jose L.--------Philippines
Reinheimer, John-----------Erie
*Swartz, Julian A.----Columbiana
Sowash, Harold A.------Richland
Sirber, John---------------Allen
Suhr, Theo----------------Erie
Shepherd, Lester ----------Allen
Shileds, Fred-----------Clermont
Stroup, Albert M. T.------Hardin
Stevens, Francis H.-----Erie, Pa.
Shellenberger, Harold------Miami
Scheverrol, Joseph-------Portage
Schlegel, Paul-----------Summit
Sawyer, Jas. V.--------Pickaway
Stiles, Stanley R.--------Summit
Stein, Harry ----------Mahoning
Thomas, D. H.---------Pickaway
Thompson, Preston--------Hardin
Vinocur, Louis---------Cuyahoga
Willard, Franklin-Mishawaka, Ind
Weimer, Ralph-----------Medina
Welty, Fred A.-------------Allen
Wiedemann, Frank--------Marion
Witten, Bernard G.--Tyler, W. Va.
Wingardner, Paul E.--------Allen
Wiseman, Arden--------Crawford
Wolford, Darwin H.----------
Siena, New Mexico
Young, W. Lynn----------Hardin
Zupp, Lawrence-----------Logan

PHARMACY

Adelstein, Nathan ------Cuyahoga
Brickner, Norman J.------Summit
Bloom, Lawrence -------Cuyahoga
Burke, Mary M.--------Mahoning
Constein, Raymen J.----Wyandot
Clewers, P. H.-----------Jackson
Chadwick, Albert G.----------
Cabell, W. Va.
Devol, Oliver E.-----------Perry
Dennis, Ross Lee----------Wood
Dowds, John F. --------Richland
Estrellado, Panfilo A.--Philippines
Elliott, Andrew P.----------Knox
Edenberger, Albert B.---Richland
Gensert, Howard G.----Cuyahoga
Hunstman, Paul M.-----Sandusky
Keyser, Howard E.--------Wayne
Karanfilian, Peter H.---------
Hudson, N. J.
Levitt, Jack -----------Cuyahoga
Leiken, Harry----------Cuyahoga
Miller, Burdette----------Marion
Poulston, Harry D.-------Summit
Russell, Lawrence ------Sandusky
Startzman, Robert K.-------Logan
Schramm, Margaret------Belmont
Thornton, Dwight G.------Summit
Welling, Harold J.-------Summit

---

*Deceased

PRE-MEDIC

Brown, Richard F.	Berkshire,, Mass.
Conner, Clarence P.	Hardin
DeWitt, John R.	Cuyahoga
Ewing, Edwin O.	Hancock
Greenwald, Arthur A.	Summit
Griebling, Chas. J.	Richland
Geiser, Herman P.	Allen
Hardgrove, Geo. L.	Wayne
Roof, Clyde S.	Clark
Selen, Swen	Allegheny, Pa.
Shank, Paul	Hardin
Speece, Ruskin	Logan
Stocker, Edna	Auglaize
Tracy, Fred	Knox
Warninsky, Frank	Summit

COMMERCE

Amador, Amador A.	Porto Rico
Ayers, Cecil L.	Belmont
Augsburger, Lavon	Hardin
Brookhart, Harold K.	Mercer
Bannister, Thos.	Tompkins, N. Y.
Brookhart, Glenn J.	Mercer
Boyer, Huber	Shelby
Brunkhorst, Hazel	Ottawa
Bash, Genevieve	St. Joseph, Ind.
Babcock, Avonelle I.	Hardin
Baldwin, Alvaretta	Hardin
Bodell, Alma	Hardin
Corfman, Ray	Hardin
Deibel, Bert B.	Wayne
Detwiler, Hobart F.	Westmoreland, Pa.
Ellis, Thos. E.	Mahoning
Edmonds, Belle A.	Barry, Mich.
Faulkner, John Edw.	Crawford
Gomez, Juan	Cuba
Geyer, Cleo Geo.	Putnam
Hawk, Russell	Allen
Hammer, Velma F.	Hardin
Harrod, Ola	Allen
Harbourt, Ella P.	Jefferson
Irwin, Clara	Allen
Johns, Frank M.	Crawtorer
Kelley, Walter	Allegheny, Pa.
Krepps, Chas. E.	Fayette, Pa.
Klingler, Constance	Hardin
Kelly, Mrs. M. J.	Hardin
Ludwig, Day	Hardin
Moody, Allen	Lycoming, Pa.
Moraes, Heroclides	Brazil
Main, Eli	Hardin
McKeown, Edw.	New Haven, Conn.
Marshall, Montgomery	Erie, N. Y.
McElroy, Harry	Hardin
McElree, Tamsan	Hardin
Osborn, Guy	Hardin
Porter, Wm.	Marion
Richard, Stella	Indiana, Pa.
Russell, Georgia	Wayne, Mich.
Seely, Walter	Northumberland, Pa.
Secord, Myrtle	Wyandot
Stratton, Edith I.	Hardin
Shanklin, Marie	Hardin
Steinmetz, Emma	Wyandot
Stephans, Martha	Auglaize
Stemple, Margaret	Hardin
Tuason, Benito C.	Philippines
Van Houten, Earl	Hardin
Wilson, Carlin	Hardin
Wickman, Roy C.	Seneca
Wollam, Waldo	Hardin
Woten, Hazel	Paulding
Welty, Agnes	Hardin

PRE-COMMERCE

Abbott, Marcus	Erie, N. Y.
Henwood, Joseph	Wayne
Light, Russell	Montgomery
Stettler, Paul	Allen
Twigg, John	Wayne

COMMERCIAL-NORMAL

Banning, Edwin	Hardin

MUSIC

Allen, Alice	Hardin
Ayers, Cecil	Belmont
Brickner, Norman J.	Summit
Brawn, Kenneth	Franklin
Balmer, Mrs. J. E.	Hardin
Buehler, Edna	Hardin
Betz, Miles	Hardin
Basil, Geneva	Van Wert
Brunkhorst, Lucile	Ottawa
Basil, Velma	Van Wert
Beuchert, Freda K.	Hardin
Bowers, Lucile	Hardin
Bamberg, Elizabeth	Hardin
Bish, Margaret	Hardin
Baker, Mamie	Hardin
Baransy, Eulah	Hardin
Baransy, Florine	Hardin
Blatt, Alice M.	Ottawa
Brame, Clona	Hardin
Bowers, Opal B.	Van Wert
Barnes, Vera I.	Hardin
Barnes, Vera	Hardin
Bailey, Winona	Auglaize
Cox, Albert N.	Hardin
Cox, Doorthy	Hardin
Cox, Viola M.	Hardin
Cron, Freda	Miami
Campbell, Mary	Hardin
Conner, Edith	Hardin
Clark, Lavon	Hardin
Case, Pauline	Hardin
Collier, Faye Clark	Lawrence
Cady, Anna	Washington
Cole, Mildred	Hardin
Cooney, Helen	Hardin
Cretors, Martha	Hardin
Cooney, Hazel	Hardin
Danner, Lucile	Hardin
Dehus, Louise	Hardin
Danner, Geneva	Hardin
Detrick, Dorothy	Hardin
Dearth, Ladonna	Hardin
DeWitt, Ruth	Hardin
Everett, Joyce O.	Allen
Earl, Virginia	Hardin
Eibling, Cora	Hardin
Florida, Fred	Hardin
Freeman, Aldisa	Hardin
Fry, Margaret	Hardin
Fisher, Beatrice	Mercer
Fast, Annette	Paulding
Gilfillan, Robert B.	Darke
Greer, George	Hardin
Garwood, Mervin	Hancock
Gallant, Ruth	Hardin
Gesaman, Alice	Hardin
George, Ruby	Hardin
Garmon, Lavonne	Hardin
Gigandet, Mary	Shelby
Holmes, Carl L.	Allen
Hofer, Arthur	Hardin
Huston, Charles	Hardin
Hoel, Hazel	Mercer
Huffman, Janet	Hardin
Holman, Helen	Hardin
Hilty, Helen	Hardin
Hover, Lois	Allen
Hilty, Margaret	Hardin
Hoel, Gladys	Mercer
Hershner, Faye	Crawford
Irey, Genevieve	Hardin
Judkins, Lois	Hardin
Jump, Leta	Hardin
Johns, F. M.	Crawford
Johnstone, Rowena	Hardin
Jones, Gwenlyn	Putnam
Kimmell, Don	Hancock
Koch, Mildred M.	Mercer
Kinnear, Ethel M.	Hardin
Klingler, Donna	Hardin
Klinger, Ruby	Paulding
Knox, Lenore	Pickaway
Long, Jesse	Hardin
Law, Verena	Hardin
Lowman, Mildred	Hardin
Landon, LeIrma	Hardin
Lowe, Ruth	Hardin
Lantz, Beatrice	Hardin
Litzenberg, Ayliffe	Knox
Moreland, Lawrence S.	Chemung, N. Y.
Mertz, Forest	Hardin
Morris, Evelyn	Allen
McGinnis, Dorothy	Van Wert

Marty, Delphine	Hardin
Mushaw, Ruth I.	Hardin
March, Ruby	Hardin
Moorman, Dorothy	Hardin
Mowery, Keturah	Allen
McGuffey, Grace	Hardin
McGuffey, Esther	Hardin
McCurdy, Flora	Hardin
McCurdy, Trola	Hardin
McGinnis, Evelyn	Hardin
McElroy, Mozelle	Hardin
Matteson, Ellen	Wyandot
Main, Pauline	Hardin
Main, Mildred	Hardin
Ogden, Maud	Hardin
Poling, Russell	Hardin
Porter, Earl	Trumbull
Page, Warder	Champaign
Prichard, Lewellyn	Portage
Phillips, Louella	Hardin
Roth, Aaron L.	Hardin
Reyes, Jose	Philippines
Riggle, Chalmer, Jr.	Hardin
Runser, Charles	Hardin
Runser, Mae	Hardin
Runser, Mildred	Hardin
Rothrock, Marie	Hardin
Rumbaugh, Beatrice	Hardin
Rose, Hope	Hardin
Reed, Julia	Hardin
Reese, Pauline	Hardin
Shadley, Morris	Hardin
States, John	Hardin
Shields, Fred	Clermont
Scott, Helen	Hardin
Selen, Swen	Allegheny, Pa.
Smith, Russell	Crawford
Sloan, Francis M.	Hampden, Mass.
Stoudenheimer, Ralph	Wayne
Shiveley, Howard	Hardin
States, Leland	Hardin
Schramm, Mary M.	Belmont
Sleesman, Caroline	Hardin
Smith, Frankie	Hardin
Schaefer, Margaret	New York, N. Y.
Smull, Miriam May	Hardin
Shelly, Mary Ellen	Van Wert
Stauffer, Helen	Hardin
Talbot, Porter	Washington
Vazquez, L. S.	Mexico
Taylor, Martha	Champaign
Van Horn, Luke	Hardin
Weber, Walter	Van Wert
Warninsky, Frank	Summit
Wilson, Robert	Hardin
Wilcox, Alice Mary	Hardin
Whitworth, Dorothy	Hardin
Wood, Graceanna	Hardin
Warren, Lois	Hardin
Warren, Dorothy	Hardin
Wilson, Ruth	Hardin
Warren, Millicent	Hardin
Wycoff, Elanor	Hardin
White, Zula	Wyandot
Yoder, Dwight	Hardin
Young, Mary	Hardin

EXPRESSION

Brubaker, Leroy D.	Van Wert
Bugante, Faustino	Philippines
Boltz, Wilbur K.	Auglaize
Bowers, Opal B.	Van Wert
Blinn, Pauline	Wayne
Borset, Zelma	Hardin
Conner, Clarence P.	Hardin
Erdman, Edw. A.	Eau Claire, Wis.
Evard, Mildred	Allen, Ind.
Hanna, Essie	Logan
Krawetz, Leo	Fairfield, Conn.
Harris, Princess	Hardin
Janke, Walter E.	Huron, Mich.
Kohn, Pauline	Paulding
McGuffey, H. C.	Hardin
McKeown, Edw.	New Haven, Conn.
Murphy, Faye	Pike
Nichols, Robert J.	Richland
Northrup, Verona	Hardin
Noaker, Harold	Stark
Robinson, O. H.	Lucas
Robertson, Howard N.	Carroll

Runbaugh, Margaret______Hardin
Schneider, C. O.__________Monroe
Slater, Galen ____________Wayne
Silverman, Max______Kings, N. Y.
Schramm, Margaret___________ Somerset, N. J.
Shafer, Margaret_New York, N. Y.
Trunko, Eugene__________Summit
Wharton, Russell S.______Hardin
Wiedemann, Frank _______Marion
Worl, Dorothy ___________Hardin
Wikle, Prudence_____Montgomery

SPECIAL

Bish, Bernice____________Hardin
Curlett, Eugene D.________Greene
Myers, Wilbert__________Putnam
Manning, J. F.___________Hardin
Maffett, Otto H.__________Hardin
Roth, Aaron L.___________Hardin
Tabor, Geneva ___________Hardin
Wood, Malcolm__________Summit

AGRICULTURE

Conklin, Franklin_______Delaware
Freeman, Herbert_________Hardin
Huber, Brooks_____________Allen
Hill, Paul Wood___________Wood
Krouse, Stanley______Berks, Pa.
McWilliams, Robert_______Hardin
Mathews, Walter _________Hardin
Owens, James G.___________Allen
Snyder, Clifford__________Marion

PREPARATORY

Allen, M. J.________________Allen
Brewer, Clarence C.________Darke
Brewer, Lawrence_________Darke
Bruner, Samuel C.__________Clark
Bowers, J. Raymond__Fayette, Pa.
Balsiger, Grace May________Pike
Coburn, Harold ___________Scioto
Caris, John A.___________Portage
Cloore, Paul R.______________Allen
Cransaz, Robert______Switzerland
Cleland, Herman L._____Crawford
Clemens, Aldis _________Crawford
Clark, Beulah_____________Hardin
Dobbins, Earl K.__________Marion
Dalrymple, Richard K.__________ Clearfield, Pa.
Dendinger, Elmer ____Perry, Ind.
Everett, Joyce O___________Allen
Elsass, Christena _________Shelby
Frase, Earl_________Barry, Mich.
Fowler, Wesley R.______Franklin
Fung, Kui Yin____________China
Fisher, Beatrice___________Mercer
Gearhart, John F.__Somerset, Pa.
Guenot, Alfred B.________Canada
Greer, Herbert____________Hardin
Gallant, Ruth_____________Hardin
Henwood, James____Wayne, Mich.
Hartman, Paul J.______Richland
Harrod, Victoria___________Allen
Holman, Helen___________Hardin
Hover, Lois_______________Allen
Ingledue, Grace____________Allen
Jameson, Walter__________Hardin
Kerpan, Joseph_______Logan, Ill.
Kellough, Harold W.__Champaign
Kidd, Harry L._________Franklin
Kraft, Ruth G.___________Hardin
Lee, L. T._______________China
Lowman, Dale H.________Hardin
Light, Chandis__________Richland
Liggett, Clifton____________Union
Litzenburg, Ayliffe__________Knox
McCleery, Robert B._____Fairfield
Miller, Stanley A.___________Allen
Moraes, Heroclides ________Brazil
Miller, Rolland P.________Putnam
Mercer, Irwin____________Lorain
Meyer, Howard N.__________Stark
Mitchell, Warren __________Stark
Mertz, James ____________Hardin
Marshall Ellen____________Hardin
McPheron, Edna____________Allen
Pearce, Wm. J.____Allegheny, Pa.

Pumphrey, James C.	Hardin
Poling, Edna I.	Hardin
Sankey, I. W.	Mahoning
Smith, Russell	Crawford
Shaffer, Ralph C.	Cambria, Pa.
Supinger, Robert	Warren
Snider, Rae	Paulding
Solomon, Helen	Hardin
Slusser, Harriet	Hancock
Smith, Daisy Ilo	Allen
Thomas, Edw. B.	Allen
Thompson, Wayne C.	Mahoning
Trunko, Eugene C.	Summet
Wingard, Jay F.	Indiana, Pa.
Wedebrook, Chris. W.	Scioto
Wasmuth, Anthony	Montgomery
Wiant, Loretta	Clark
Wilcox, Alice Mary	Hardin
Wikle, Prudence	Montgomery
Young, William	Wyandot

FEDERAL STUDENTS

Allinger, Neil J.	Engineering	Allen
Alspaugh, Joseph	Engineering	Allen
Bow, Homer C.	Law	Stark
Barney, Ernest E.	Engineering	Colombia, S. A.
Brown, Kenneth	Law	Franklin
Brown, John F.	Engineering	Lima
Caffee, Horace	Engineering	Hardin
Clevenger, Alfred	Engineering	Hardin
Collier, James	Law	Lawrence
Clymer, Gale	Engineering	Hardin
Cookingham, M. D.	Structural	Hardin
Coppersmith, Wm.	Engineering	Hardin
Denius, Harry	Education	Lorain
Erdman, Edw. A.	Engineering	Eau Claire, Wis.
Farnsworth, Hugh D.	Engineering	Trumbull
Fillman, Walter	Law	Toledo
Garner, Edison W.	Engineering	Jefferson
German, William	Engineering,	Monroe, N. Y.
Guilinger, Banks E.	Law	Mahoning
Geyer, Cleo Geo.	Bookkeeping	Putnam
Halter, Gale L.	Engineering	Allen
Harris, Wm. P.	Preparatory	Erie
Katherman, Jerry	Liberal Arts	Miami
Lowrence, Parley G.	Drafting	Hancock
Lindersmith, Paul	Engineering	Williams
McElroy, Harry	Bookkeeping	Hardin
Meyer, Howard M.	Preparatory	Stark
Mathews, Walter	Bookkeeping	Hardin
McConnell, G. D.	Engineering	Tuscarawas
Nichols, Robert J.	Law	Richland
Pealer, A. B.	Law	Richland
Patterson, Chas. A.	Law	Hardin
Pugh, Norton G.	Engineering	Miami
Richardson, Howard	Pharmacy	Allen
Robinson, B. C.	Engineering	Cuyahoga
Stearns, Cloyde L.	Engineering	Morrow
Stettler, Paul	Pre-Commerce	Allen
Sawyer, James V.	Law	Pickaway
Schaeublin, Lowell F.	Structural	Allen
Schlegel, Paul L.	Law	Summit
Snider, Sidney	Engineering	Cleveland
Sowash, Harold A.	Law	Richland
Stich, Francis A.	Engineering	Hamilton
Sukup, Irwin A.	Engineering	Crawford
Thobaben, Weston H.	Engineering	Cuyahoga
Thompson, Preston E.	Law	Hardin
Upp, Arthur	Engineering	Williams
Walker, Grover C.	Education	Auglaize
Wickman, Roy C.	Commerce	Seneca

INDEX

Administrative Officers and Faculty 5
Admission and Entrance
  General 24
  Education 60
  Engineering 70
  Law 85
  Liberal Arts 30
  Pharmacy 89
Agriculture, School of 42
Aid to Students 23
Assemblies 20
Athletics 19, 135
Band 19
Bar Examinations, Preliminary to 85
Biology 42
Board and Room 20
Board of Trustees 3
Bookkeeping 108
Buildings 14
Business Courses 110
Calendar 2
Chemistry 44
Christian Associations 17
Coaching, Athletic 136
Commerce, School of 105
Committees of
  Trustees 4
  Faculty 10
Courses
  Arts-Medicine Combination 37
Description of
  Agriculture 124
  Commerce 110
  Education 64
  Engineering 72
  Expression 129
  Law 83
  Liberal Arts 42
  Music 114
  Pharmacy 92
  Physical Education 134
  Preparatory 102
  Religious Education 125
Pre-Professional
  Pre-Medical 36
  Pre-Dental 39
  Pre-Commerce 40
  Pre-Agriculture 41
Dropping or Changing 27
Credits, Requests for 13
Degrees (See each Curriculum) 28
Discipline 26
Drafting, Structural 78
Economics 56
Education
  College of 59
  Four-Year Course 62
  Two-Year Course 63
Employment Bureau 68
Entrance (See Admission)
Engineering
  College of 69
  Civil 71
  Chemical 77
  Electrical 74
  Mechanical 75
English 45
Equipment 14
Examinations 27
Expenses 21, 102
Expression
  School of 127
  Expenses 132
Faculty
  Meetings 28
  Members 28
Fees
  Graduation 22
  Laboratory 22
  Special 22
French 52
German 51
Glee Clubs 18
Grade Marks 27
Graduation, Liberal Arts 36
Greek 47
Gymnasium (See Physical Ed.)
History 47, 65

Horticulture ---------------- 42
Laboratories ---------------- 14
Latin ---------------------- 49
Law, College of------------- 81
Lectures and Concerts-------- 19
Liberal Arts, College of------ 29
Library -------------------- 16
Literary Societies ---------- 17
Loan Fund ----------------- 23
Majors and Minors---------- 33
Mathematics --------------- 49
Matriculation -------------- 21
Modern Languages ---------- 49
Museum ------------------- 15
Music, College of------------113
  Courses in-----------------114
  Expenses -----------------121
  Graduation in -------------117
  Public School Music---------119
  Recitals ------------------120
  Scholarships ---------------121
  Teachers' Course in -------118
Musical Organizations ----18, 120
Penmanship ----------------112
Philosophy ----------------- 57
Pharmacy, College of--------- 87
Physical Education, School of-133
Physics ------------------- 54
Points, Quality-------------- 28
Political Science ------------ 55
Practice Teaching ----------- 67
Preparatory School --------- 97
  Admission --------------- 99
  Faculty ----------------- 98
  Graduation Requirements -- 99
  Outline of Course of Study-101
Prizes -------------------- 24
Psychology --------------52, 64
Publications, Student -------- 19
Refunding ------------------ 23
Registration ------25, 102, 70, 89
Regulations, Liberal Arts----- 35
Religious Education, School of 56
Rooms and Board------------ 20
Scholarships ---------------- 23
School Year ---------------- 12
Sociology ------------------ 53
Spanish ------------------- 52
Special Students ------------ 25
Student Activities ----------- 17
Student Classification -------- 36
Students, List of-------------142
Summer School -------------- 67
Technical Organizations 20, 68, 79
Tuition -------------------- 21
University,
  Farm ------------------- 17
  History of -------------- 11
  Organization of ---------- 28

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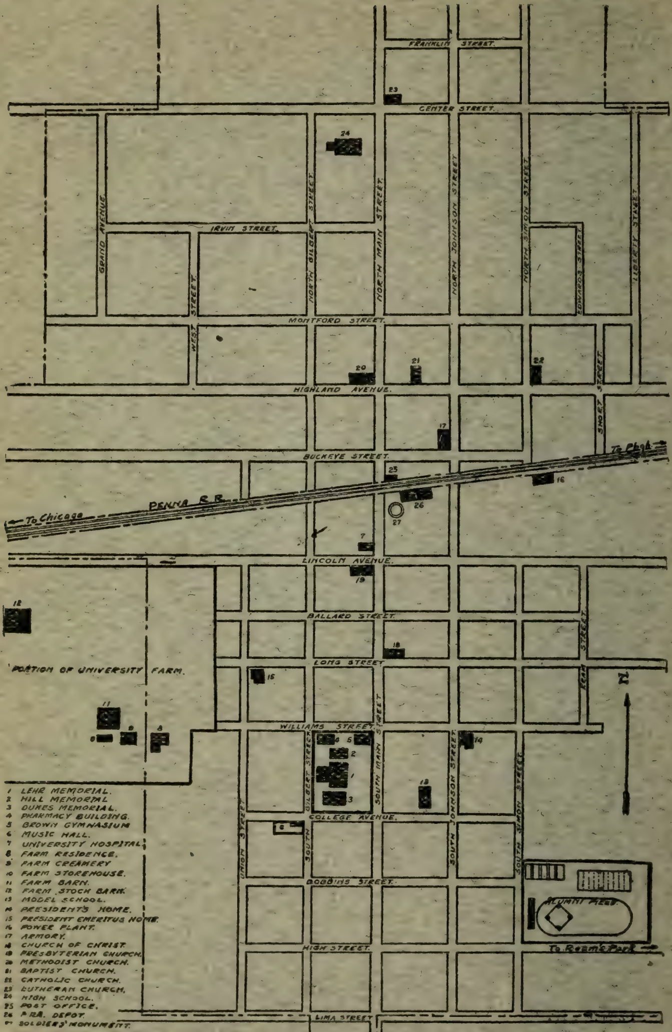
UNIVERSITY BULLETIN. Published in June, July, September, November, January, April and May by the Ohio Northern University, Ada, Ohio. Entered as second-class matter July 3rd, 1917, at the postoffice at Ada, Ohio, under the Act of Congress of July 16th, 1894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LIBERTY STREET
MONTFORD STREET
HIGHLAND AVENUE
SHORT STREET
BUCKEYE STREET
To Phila.
PENNA R.R.
To Chicago
LINCOLN AVENUE
BALLARD STREET
LONG STREET
REAM STREET
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UNION STREET
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SOUTH
DOBBINS STREET.
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ALUMNI FIELD
To Reams Park
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1 LEHR MEMORIAL.
2 HILL MEMORIAL
3 DUKES MEMORIAL.
4 PHARMACY BUILDING.
5 BROWN GYMNASIUM
6 MUSIC HALL.
7 UNIVERSITY HOSPITAL
8 FARM RESIDENCE.
9 FARM CREAMERY
10 FARM STOREHOUSE.
11 FARM BARN.
12 FARM STOCK BARN.
13 MODEL SCHOOL.
14 PRESIDENT'S HOME.
15 PRESIDENT EMERITUS HOME.
16 POWER PLANT.
17 ARMORY.
18 CHURCH OF CHRIST.
19 PRESBYTERIAN CHURCH.
20 METHODIST CHURCH.
21 BAPTIST CHURCH.
22 CATHOLIC CHURCH.
23 LUTHERAN CHURCH.
24 HIGH SCHOOL.
25 POST OFFICE.
26 P.R.R. DEPOT.
27 SOLDIERS' MONUMENT.

Ada and the O. N. U.

OHIO NORTHERN UNIVERSITY

Annual Catalog

June 1922

CONTENTS

Page

- University Calendar 5
- Board of Trustees 6
  - Officers of the Board 7
  - Committees of Board 7
- Administrative Officers and Faculty 8
  - Faculty Committees 13
- General Information 14
  - History 14
  - Ohio Northern's Mission 15
  - Unique Features 15
  - General Directions 16
  - Requests for Credits 16
- Equipment 17
  - Building and Laboratories 17
  - Library 19
  - Athletic Field 20
  - University Farm 20
- Student Societies and Activities 20
  - Literary Societies 20
  - Debating Associations 20
  - Christian Associations 21
  - Musical Organizations 22
  - Publications 22
  - Athletics 22
  - Lectures and Concerts 23
  - Technical Organizations 23
  - Assemblies 23
  - Home Comforts, Room and Board 24
- Expenses 24
  - Matriculation 24
  - Tuition 24
  - Fees 25
  - Refunding 26
  - Failure to Preregister 26
- Aid to Students 26
  - Loan Fund 26
  - Scholarships 26
  - Prizes 27
  - Work 28
- Admission and Entrance 28
  - Registration 29
  - Discipline 29
  - Absences 30
  - Dropping or Changing Course 30
- Marks and Examinations 30
  - Grade Marks 31
  - Examinations 31
- Degrees 32

COLLEGE OF LIBERAL ARTS

- Admission 34
  - Methods of Admission 34
  - Entrance Requirements 35
  - Excess Entrance Credits 36
  - Advisers 36
- Collegiate Courses 37
  - Courses open to Freshmen 38
  - Prescribed Courses 38
  - Majors and Minors 38
- General Regulations 39
  - Classification of Students 40
  - Condition of Graduation 40
- Pre-Professional Courses 41
  - Premedic Course 41
  - Arts-Medicine Combination 42
  - PreDental Course 43
  - PreCommerce Course 44
  - PreAgricultural Course 45
- Description of Courses 46
  - Agriculture 46
  - Biology 46
  - Chemistry 48
  - Economics 62
  - Education 49
  - English 50
  - Greek 51
  - History 52
  - Latin 53
  - Mathematics 54
  - Modern Languages 56
  - Philosophy 60
- Physics 61
- Political Science 62

Page
- Psychology 64
  - Religious Education 60
- Sociology 65
  - Electives from other Departments 66

COLLEGE OF EDUCATION

- Aims and Entrance 68
  - Professional Training 69
- Courses of Study 70
  - Four Year Course 70
  - Two Year Course 71
- Description of Courses 72
  - Educational Psychology 72
  - School Organization and Administration 72
  - History and Principles of Education 73
  - Methods of Teaching 74
  - Public School Drawing 74
  - Public School Music 74
  - Hygiene 74
  - Observation and Practice 75
- Summer Quarter 75
- Educational Society 76
- Employment Bureau 76

COLLEGE OF ENGINEERING

- Admission 78
  - Advanced Standing 78
- Arrangement of Courses 79
  - Option 79
- Civil Engineering 79
  - Schedule of Courses 81
  - Required and Optional Courses 82
- Electrical Engineering 83
  - Schedule of Courses 84
- Mechanical Engineering 85
  - Schedule of Courses 85
- Chemical Engineering 86
  - Schedule of Courses 86
- Structural Drafting 87
  - Schedule of Courses 87

Page
- Degrees in Engineering 87
  - Conditions of Graduation 87
  - Thesis and Seminar 88
- Technical Organizations 88
- Expenses 89

COLLEGE OF LAW

- Admission 95
- Organization and Purpose 92
- Schedule of Courses 93
- Method of Instruction 94
  - Moot Court 94
- Preliminary to Bar Examination 95
- Graduation 95
- Expenses 96

COLLEGE OF PHARMACY

- Admission and Time of Entrance 99
  - Advantages Offered 98
- Laboratories 98
- Schedule of Courses 100
  - For Pharmaceutical Graduate 100
  - For Pharmaceutical Chemist 100
  - For B. S. in Pharmacy 101
- Description of Courses 102
  - Materia Medica 102
  - Chemistry 104
  - Pharmacy 105
- Conditions of Graduation 106

THE PREPARATORY SCHOOL

- Faculty 108
- Admission 109
  - Time to Enter 109
- Rating of School 109
- Requirements for Graduation 109
  - Options 110
- Course of Study 111
- Curriculum 112

Page
Quality of Work 112
Expenses 112
Aid to Students 112
Loan Fund 112
Work 112
Registration 112
Discipline 113
Class Attendance 113
Quality of Work 113
Marks and Examinations 113
Amount of Work Allowed 113
Advantages 114
Reports to Parents 114

SCHOOL OF COMMERCE

Aim 116
Location and Equipment 116
Course of Study 116
Time Required 116
Degrees and Diplomas 116
Special Students 117
When to Enter 117
Advantages 117
Schedule of Courses 118
Short Course in Bookkeeping 118
Short Course in Stenography 118
Two-Year Course 119
Teachers' Normal Course 120
Description of Courses 121
Expenses 123

SCHOOL OF MUSIC

Aim and Equipment 126
Departments and Courses 126
Requirements for Graduation 129
Page
Teachers' Course 130
Schedule of Courses 131
Supervisor's Course 131
Recitals 132
Musical Organizations 132
Tuition 133
Graduation Fees 134
Regulations 134

SCHOOL OF AGRICULTURE

Equipment 136
Courses 136

SCHOOL OF RELIGION

Purpose of 138
Courses of Study 60

SCHOOL OF EXPRESSION

Aim 140
Courses 140
Public Speaking 142
Problems in Expression 142
Recitals 143
Diplomas 143
Expenses 143

PHYSICAL EDUCATION AND INTER-COLLEGIATE ATHLETICS

Aim 146
Courses 146
Coaching 148
Honorary Degrees 149
Graduates of 1922 149
Undergraduates 153

CALENDAR

1922

FALL QUARTER

September 11, Monday----------------Entrance Examinations
September 12, Tuesday Registration Day
September 13, Wednesday-----------(8:30 A. M.) Classes begin
November 20, to November 24------------Preregistration week
November 28, Tuesday---------(5:00 P. M.) Fall Quarter Ends

WINTER QUARTER

December 4, Monday--Entrance Examinations and Registration
December 5, Tuesday----------------(8:30 A. M.) Classes begin
December 15, Friday-------(5.00 P. M.) Christmas vacation for Pharmacy students only.
December 22, Friday---(5:00 P. M.) Christmas vacation begins

1923

January 3, Wednesday---(7:00 A. M.) Christmas vacation ends
February 19, to February 23--------------Preregistration week
March 2, Friday,---------------------------Winter Quarter ends

SPRING QUARTER

March 5, Monday----Entrance Examination and Registration
March 6, Tuesday-------------------(8:30 A. M.) Classes begin
May 11, Friday---------------------------------Junior-Senior Day
May 14, to May 18------------------------Preregistration Week
May 20, Sunday----------------------------Baccalaureate Day
May 21, Monday---------------------------------------Class Day
May 22, Tuesday------------------------------------Alumni Day
May 22, Tuesday--------(9:30 A. M.) Annual Meeting of Board of Trustees.
May 23, Wednesday-----------------------Commencement Day

SUMMER QUARTER

May 28, Monday------Entrance Examinations and Registration
May 29, Tuesday--------------------(8:30 A. M.) Classes begin
July 6, Friday----------------First Special Summer Term Ends
July 9, Monday-----------Second Special Summer Term Begins
July 30, to August 3------------------------Preregistration Week
August 11, Saturday------Summer Quarter and Second Special Summer Term Ends.

FALL QUARTER

September 10 Monday-------------------Entrance Examinations
September 11, Tuesday------------------------Registration Day
September 12, Wednesday-----------(8:30 A. M.) Classes begin

BOARD OF TRUSTEES

Elected by the Conference

Initus			Exitus
1899	HON. S. A. HOSKINS, A.M.	Columbus,	1921
1913	MR. JOSEPH H. EDWARDS	Leipsic,	1921
1911	MR. GEORGE E. WHITNEY	Marysville,	1921
1898	REV. D. H. BAILEY,D.D.	Kenton,	1922
1907	*MR. S. A. BOWMAN	Celina,	1922
1917	REV. C. E. SCHENK	Cincinnati,	1922
1913	REV. WILLIAM A. WIANT, D.D.	Springfield,	1923
1913	REV. JAMES R. COLLEY, D.D.	Greenfield,	1923
1905	HON. JOHN H. CLARK, LL. B.	Marion,	1923
1914	REV. CYRUS M. VAN PELT, D.D.	Cincinnati,	1924
1918	REV. WILLIAM E. PUTT, D.D.	Cincinnati,	1924
1918	MR. EDGAR J. BROOKHART, LL. B.	Celina,	1924
1910	MR. S. D. HAZLETT	Ada,	1925
1915	MR. H. E. MEYERS	Springfield,	1925
1919	MR. W. W. MORRALL	Morral,	1925

*Deceased

Elected by the Alumni

1918	DR. AUSTIN S. McKITRICK	Kenton,	1923
1919	HON. JOHN F. KRAMER, L.L. B.	Mansfield,	1924
1910	REV. J. WESLEY HILL, D.D., L.L. D.	N. Y. City,	1925
1916	HON. FRANK B. WILLIS, L.L. D.	Washington, D. C.	1926
1922	ROBINSON G. JONES, A.M., Ped. D.	Cleveland	1927

At Large, Elected by the Trustees

1911	HON. HENRY CLEWS, PH. D., L.L. D.	N. Y. City
1917	DR. GEORGE FRANKLIN GETTY	Los Angeles, Calif.
1920	RALPH PARLETTE, LITT. D.	Chicago, Ill.
1920	BENJAMIN A. GRAMM, M.A.	Lima, Ohio
1920	BISHOP WILLIAM F. ANDERSON	Cincinnati, Ohio

Officers of the Board

S. A. HOSKINS, President.
EDGAR J. BROOKHART, Secretary-Treasurer.

Standing Committees

Agriculture: S. D. Hazlett, D. H. Bailey, S. A. Bowman, C. E. Schenk, A. E. McKitrick, E. J. Brookhart, W. E. Putt.

Buildings and Grounds: S. A. Bowman, J.H. Clark, S. D. Hazlett, Wm. A. Wiant, J. F. Kramer, H. E. Myers, W. E. Young, W. W. Morrall.

Cabinet and Library: D. H. Bailey, Joseph H. Edwards, S. D. Hazlett, James R. Colley, J. F. Kramer, C. E. Schenk, W. E. Young, S. A. McKitrick, W. W. Morall.

Degrees: S. A. Hoskins, James R. Colley, J. W. Hill, George E. Whitney, W. W. Morall, W. E. Putt.

Executive: S. A. Bowman, J. W. Hill, Wm. A. Wiant, C. M. Van Pelt, A. E. Smith (ex-officio), E. J. Brookhart.

Finance: Joseph H. Edwards, S. A. Bowman, S. D. Hazlett, C. M. VanPelt, E. J. Brookhart.

Instruction: J. H. Clark, D. H. Bailey, S. A. Hoskins, A. E. Smith (ex-officio), George E. Whitney, H. E. Myers, A. E. McKitrick, W. E. Putt.

ALUMNI OFFICERS

President—W. H. Wagers, Toledo, Ohio
Vice-President—E. C. Akerman, Lima, Ohio
Secretary-Treasurer—Thomas J. Smull, Ada, Ohio

Executive Committee

Mrs. A. S. McKitrick, M. L. Snyder, L. C. Sleesman

Nomination Committee

William McGirr, Rudolph H. Raabe, E. A. Harper

Election Committee

Thomas J. Smull, F. L. Berger, E. E. Long

ADMINISTRATION OFFICERS AND FACULTY

HENRY SOLOMON LEHR, Ph. D. 404 Union
President Emeritus.
A. B., Mt. Union College, 1871; A. M., 1873; Ph.D., University of Wooster, 1897.

ALBERT EDWIN SMITH, D.D., Ph. D. 502 South Johnson
(President on the William W. Edwards Foundation.)
President of Ohio Northern, 1905—
A. B., Wesleyan University, 1887; Ph. D., 1898; D.D. 1906.

JOHN DAVISON, M. S., Ped. D.
Vice President and Dean of College of Education. (1916—)
B. S., Ohio Normal University, 1889; M.S., 1892; M. Lit., 1902; Ped.D., Ohio Northern, 1912.

THOMAS JEFFERSON SMULL, Archt., C. E., Eng. D. 301 S. Main
Executive Secretary. (1918—)
C.E., Ohio Northern 1904; Archt., 1906.
Graduate student, Lafayette College, 1904-05; Dean of College of Engineering 1905-1917; Eng. D. Oglethorpe University, 1921.

MARGARET ELEANOR WHITWORTH, B. S. 219 E. Monford
Registrar. (1917—).
Entrance Examiner (1922—).
B. S., Geneva College, 1894.

GUY LAWTON SMITH, B.S. in Ed. 502 S. Main
Treasurer and Assistant Registrar (1922—).
B. S. in Ed., Ohio Northern, 1921.

HARVEY EVERT HUBER, A. M., 226 E. Lincoln
Professor of Biology. (1913—1917, 1919—).
Dean of College of Liberal Arts. (1920—).
A.B., Ohio Northern, 1909; A.M., Yale University, 1912; Graduate student, University of Wisconsin, 1920.

CARROLL RUSSELL ALDEN, E. E., M. E.---------414 S. Gilbert
Professor of Electrical Engineering. (1921—)
Dean of College of Engineering. (1921—)
B.S. in E.E., Ohio Northern, 1915; B.S. in M.E., Ohio Northern, 1916; E.E., Ohio Northern, 1917; M.E., Ohio Northern, 1918.

WILLIAM PRICE HENDERSON, LL.B. 125 S. Gilbert
Professor of Law. (1921—)
Dean of College of Law. (1921—)
A.B., Ohio Wesleyan University, 1888.

RUDOLPH HENRY RAABE, Ph.B., Ph.C. 316 S. Gilbert
Professor of Pharmacy. (1911—)
Dean of College of Pharmacy. (1917—)
Ph.G., Ohio Northern, 1910; Ph.C., 1911.

FRANK LEWIS BERGER, A.B., B.S., 121 E. Lehr
Professor of Physics. (1911—)
Director of Preparatory School, (1921—)
A.B., Ohio Northern, 1910; B.S., University of Chicago, 1914.

FREDERIC THOMAS KILLEEN 209 S. Johnson
Professor of Voice and Director of A. D. Juilliard School of Music. (1916—)
Graduate of University of Michigan, School of Music, 1905; Assistant in Voice, 1905-1907; Pupil Sig. De Macchi and Harriet Ware, New York City, 1907-1909.

EMMETT ELIJAH LONG, B.C.S. 621 S. Johnson
Bookkeeping and Penmanship. (1907—).
Director of School of Commerce, (1918—).
Sudent at Zanerian Art College, 1909. B.C.S., Ohio Northern, 1911.

ANDREW SCOTT STAUFFER, B.S., B.S. in Agric. 610 S. Union
Assistant Professor of Biology. (1920—)
B.S., Ohio Northern, 1915; B.S. in Agriculture, Ohio State University, 1918; Gradute Student University of Wisconsin, 1920; Graduate Student, Ohio State University, 1922.

MATRONA ANGELO BURRIS, A.M., LL.B., Ph.D. 516 S. Main
Professor of Religious Education and Philosophy, (1921—).
Director of School of Religion, (1921—).
A.B., Ohio Northern, 1903; LL.B., Ohio Northern, 1905; A.M., Harvard, 1908; Ph.D., Harvard, 1910.

MAE DEMING-McCOPPIN, M.O. 431 N. Gilbert
Professor of Expression, (1887-1901; 1907—).
Director School of Expression, (1887-1902; 1907-1912; 1917).
B.O., Ohio Normal, 1887; M. O., Ohio Normal, 1888.

JAMES OTTO NEWTON, D.D.S. 514 S. Union
Professor of Physical Education, (1921—).
Director of School of Physical Education, (1921—).
D.D.S., Ohio State, 1904.

RICHARD HOLMES SCHOONOVER, AM., B.D., 115 S. Johnson
Professor of Greek and Church History. (1901—).
A. B., Northwestern Ohio Normal School, 1884; A.M., 1887; A.B., Ohio Wesleyan, 1888; B.D., Drew Theological Seminary, 1889.

MAJOR A. CLIFFE DEMING, A.M., B.O. 118 S. Johnson
Professor of Public Speaking, (1901-1902; 1907-1917; 1920—).
Director of School of Expression, (1912-1917).
B.O., Ohio Normal, 1899; A.B., Ohio Normal, 1900; Graduate Emerson School of Oratory, 1901.

LENIX CRAIG SLEESMAN, Ph.G., Ph.C., 702 S. Gilbert
Professor of Chemistry. (1906—)
Ph.G., Ohio Northern, 1905; Ph.C., 1906.

CHILDE HAROLD FREEMAN, B.S. 317 W. University
Professor of Rhetoric and English Literature. (1910—).
B.S., Ohio Normal University, 1901.

CARRIE ADEL WILSON, B.E. 534 S. Johnson
Dean of Women.
Professor of Education. (1914—)
B.E., Ohio Northern 1908.
B.E., Ohio Nothern, 1908; Graduate Student, College of Education, Ohio State, 1912-1913.

WALTER DAVID NISWANDER, A.M. 310 E. Lincoln
Professor of History. (1917—)
B.Ph., B.Ped., Ohio Northern, 1914; M. A. Ohio State University, 1917. Graduate Student, University of Wisconsin, 1922.

WIGHTMAN S. BECKWITH, A.M. 718 S. Main
Professor of Mathematics. (1918—)
A.B., Emory College, 1909; A.M., Harvard, 1917.

HERMAN JACOB WEBER, A.B., LL.B. 220 S. Main
Professor of Law. (1921—)
A.B., Heidelberg, 1912; LL.B., Western Reserve, 1915.

ELLAHUE ANSILE HARPER, A.M., LL.B., 418 S. Johnson
Professor of Law. (1918—)
A.B., Ohio Normal University, 1890; B.L., Ohio Wesleyan, 1893; A.B., Ohio Wesleyan, 1898; LL.B., Ohio State, 1900.

WILFRED ELLSWORTH BINKLEY, B.S., A.B. 624 S. Gilbert
Professor of Political Science and Economics. (1921—)
B.S., Ohio Northern, 1907; A.B., Antioch, 1910; Graduate Student, Harvard, 1910-11.

MARTELLE ELLIOT-DAVIS, A.B., Ph.D. 424 S. Main
Professor of Modern Languages. (1921—).
A.B., Ohio Wesleyan; Ph.D., University of Washington.

GUY HERBERT ELBIN 224 E. Lincon
Professor of Civil Engineering. (1919—)
B.S. in C.E., Ohio Northern, 1916; C.E., Ohio Northern, 1920.

HARRY LEE HAMPSER, Ph.G. 316 S. Gilbert
Instructor in Pharmacognosy. (1919—).
Ph.G., Ohio Northern, 1918.

GEORGE ANDERSON, D.D. 306 S. Main
(On the Stambaugh Estate Foundation).
Professor of Preparatory English, (1919—).
A.B., Nottingham University, 1878; Graduate English Student, London University, 1880; D.D., Royal Naval Institute, 1917.

CLARENCE CLEVELAND CARPENTER, C.E. 820 S. Gilbert
Professor of Civil Engineering. (1920—)
B.S., in C.E., Ohio Northern, 1912; C.E., Cornell Univ. 1917.

WALTER GRAY, A. M. 620 S. Gilbert
Professor of Psychology and Sociology. (1920—)
B.S. in Ed., Ohio Northern, 1915; A.M., Ohio State University, 1918

IVOR ST. CLAIR CAMPBELL, M.E., E.E. 201 E. Highland
Professor of Mechanical Engineering. (1921—)
B.S. in M.E., Ohio Northern, 1916; B.S. in E.E., Ohio Northern, 1917; M. E., Ohio Northern, 1918; E. E., Ohio Northern, 1919.

JOHN THEODORE FAIRCHILD, Ph.M., C.E. 305 S Main
Professor of Mathematics, (1921—).
A.B., Ohio Northern, 1895; Ph.M., Carnegie Institute, 1902; C.E., Ohio Northern, 1904; Graduate Student, University of Chicago, 1821.

JESSE RAYMOND HARROD, B.S. 213 E. University
Instructor in Chemistry, (1921—)
B.S., in Education, Ohio Northern, 1918; B.S., Ohio Northern, 1919; Graduate Student, Ohio State, Summer, 1921, 1922.

EUNAH JOHNSON, A.B., 308 E. Lincoln
Instructor in Mathematics. (1922—).
A.B., Miami University, 1916.

MARY MIRIAM BLAIN, Grad. in Ped. and Com. 417 Union
Instructor in Stenography and Typewriting. (1920—).
Graduate, Gregg School of Shorthand, 1920.

MARY CLYTICE PHILLIPS 714 S. Main
Instructor in Piano and Pipe Organ. (1917—)
Graduate in Piano, Ohio Northern, 1916; Graduate Student Chautauqua, New York, 1920.

DOROTHY JEAN AMES 534 N. Main
Instructor in Piano.
Graduate in Piano, Ohio Northern, 1919; Student of Rudolph Reuter; Graduate in Piano, Chicago Musical College, 1921.

ETHEL WARREN 724 S. Main
Assistant Instructor in Piano. (1919—)
Graduate in Piano, Ohio Northern, 1917; Graduate Student, Chicago Musical College, 1921.

CARRIE WILLIAMS BREWER 620 Union
Instructor in Violin. (1920—).
Conservatory of Music, Cincinnati, 1915.

SIG. MICHAEL MAZZULA, B.S. in Chem. E. 214 W. Ballard
Instructor in Wind Instruments. (1920—).
B.S. in Chem. E., Ohio Northern, 1921.

GRACE NORMAN ROSSER 219 N. Main
Assistant Professor of Physical Education. (1921—).
Graduate in Expression, Ohio Normal, 1891; Graduate Curry School of Expression, 1899; Post-Graduate Curry School of Expression, 1901.

RALPH L. STEWART 821 S. Gilbert
Instructor in Gymnasium.

ARTHUR MILNE, A.B.
General Secretary Y. M. C. A.
A.B., Mt. Union, 1922.

MARY ELIZA THOMAS 424 S. Gilbert
Librarian.
B.S., Ohio Normal University, 1894.

FLO. L. CRONBAUGH, G. Sten. 516 S. Simon
Notary Public.
Stenographer and Office Secretary.
G. Sten. Ohio Northern, 1911.

ESTHER PATRICK, (Ohio State).
Instructor in Domestic Science.
(Summer Quarters, 1916—).

WILLIAM H. SCHAUM 413 S. Gilbert
Assistant in Mathematics.

CLARENCE M. CARHART 821 S. Gilbert
Assistant in Drawing.

ERNEST V. JONES 821 S. Gilbert
Assistant in Mechanical Laboratory.

CHARLES E. HOEL 724 S. Union
Assistant in Physical Laboratory.

ARCHIE G. HAIR, B.S. in Chem. E. 534 S. Main
Assistant in Chemical Laboratory.

EVERETT L. BIRD 502 S. Main
Assistant in Electrical Laboratory.

ALVA E. ROCKWELL, Ped. B.
Farm Superintendent.
Ped. B., Ohio Normal University, 1899.

FACULTY COMMITTEES

Administration: Dr. Smith, Dr. Davison, Dr. Smull, Mrs. Whitworth.

Artist-Lecture: Dr. Smull, Professors Killeen, Blain, Fairchild, Dr. Davis.

Assignment and Supervision: The Deans and Directors, Registrar, Chairman.

Athletics: Professors Sleesman, Killeen, Long, Elbin, Niswander, Dr. Newton.

Entrance: The Deans and Directors, Entrance Examiner, Chairman.

Finance: Dr. Smith, Dr. Smull, Treasurer Smith, Mrs. Whitworth.

Fraternities: Professors Hamsher, Elbin, Beckwith, Harper, Raabe, Carpenter.

Graduation and Degrees: Deans and Directors, Registrar Chairman.

Library: Miss Thomas, Professors Gray, Freeman, Weber, Stauffer.

Life Service: Dr. Burris, Dr. Davis, Professor Wilson, Messrs. Meyer, Milne.

Literary Societies: Professors Berger, Niswander, Major Deming, Campbell, Schoonover.

Loan Fund: Dr. Smith, Treasurer Smith, Dr. Smull.

Physical Education: Dr. Newton, Professors Wilson, Sleesman, Major Deming, Treasurer Smith.

Student Publications: Professors Freeman, Stauffer, Wilson, Binkley, Dr. Smull.

Students' Welfare: Dr. Anderson, Dr. Burris, Professors Wilson, McCoppin, Gray, Harrod, Johnson.

Student Home: Dr. Burris, Dr. Davis, Miss Wilson.

Summer School: Dr. Davison, Dr. Smull, Professors Freeman, Huber, Berger.

Schedule: The Deans and Directors.

OHIO NORTHERN UNIVERSITY BULLETIN

New Series ADA, OHIO, JUNE, 1922 Vol. XV, No. 1

Seat of Ohio Northern

Ada, the seat of the Ohio Northern University, is an attractive little city in Northwestern Ohio, on the Pittsburg, Fort Wayne & Chicago Division of the Pennsylvania Railroad, fifteen miles east of Lima and twenty-eight west of Upper Sandusky. Railroad connection is made at Lima with the Baltimore and Ohio and the Lake Erie & Western division of the NewYork Central Lines and the Erie Railroad. Connection is also made at Upper Sandusky with the Hocking Valley, at Forest, sixteen miles east, with the Big Four, and at Dunkirk, ten miles east, with the Ohio Central Lines.

Lying on the great watershed separating the waters tributary to the Ohio and the Mississippi from those flowing into the Great Lakes, Ada, with its population of three thousand, has an elevation above sea-level as high as any in the State, with healthful climate, sanitary conditions well guarded, and an abundant supply of excellent water from drilled wells. The town is unsurpassed in healthfulness and freedom from epidemics. Numberless forest trees line avenues and adorn premises, affording a delightful retreat during the warm summer months. The paved streets, hot and cold water plants, electric light and natural gas evidence the wide-awakeness of the citizens in the matter of public utilities and city improvements.

Historical Sketch

On August 14, 1871, in a three-story brick building erected in the campus where the Lehr Memorial now stands, the Northwestern Ohio Normal School, with Henry Solomon Lehr at its head was formally opened "for the instruction and training of teachers in the science of education, the art of teaching and the best methods of governing schools."

The name was changed to Ohio Normal University and a charter from the State issued on May 19, 1885, the policy and management remaining the same as before.

The school was under private control from the outset until September, 1898, when the owners sold to the Central Ohio (now the West Ohio) Conference of the Methodist Episcopal Church the real estate, personal property and equipment belonging to the school. Under the new administration, as fast as existing contracts permitted, the departments, heretofore semi-independent, were recognized under one management, and the respective heads, designated deans, were placed on salary instead of commission. At the same time instruction in the main school was made departmental, with the head teacher in each department director thereof. The new charter was dated May 24, 1889.

In 1904 the institution was re-named Ohio Northern University, and the charter amended December 31, 1907.

In the spring of 1910 the Trustees recognized the College of Liberal Arts as distinct from the Normal School, and appointed a dean in charge. The courses leading to the scholastic degrees were strengthened, the standard number of hours required for the bachelor degrees adopted, and the conferring of the Master's degree discontinued until such time as the resources of the institution should permit organization for post-graduate instruction.

Ohio Northern's Mission

The Ohio Northern University invites to her privileges all worthy young men and women, especially the self-dependent, who are ambitious for a liberal education. Her entire regime has in view the creation and maintenance of an atmosphere inspirational and congenial to plucky young people of both sexes whose lot in life has taught them the worth of hard labor and close economy. Jeans and broadcloth, homespun and silk have equal chance. The atmosphere is thoroughly democratic, a leading characteristic being the spirit of good fellowship existing among the students, a majority of whom are relying mainly on their own pluck and push. Thorough and practical instruction in all the departments is provided at a minimum expense to the student.

Unique Features

The school year is forty-eight weeks in length, divided into four terms, designated, respectively, Fall, Winter, Spring and Summer Quarters. Instead of measuring time and work by Freshman, Sophomore, Junior and Senior years, credit is based on number of hours of class work done in each subject. At the beginning of the Winter Quarter the Junior and Senior classes are formally organized under the direction of a member of the faculty. Those having at least 90 quarter hours and 100 points are admitted to the Junior organization; those having at least 135 quarter hours and 135 points are admitted to the Senior organization. The student must present a certificate from the registrar.

Students enter at the beginning of any quarter (except in Pharmacy), find their places where certificates or examination credits rank them, pursue studies as many terms as their plans and means allow, and are duly credited on the records with the work done. On satisfactorily completing the required number of hours in the selected curriculum the appropriate degree is granted, the diploma bearing the date of Commencement Day of the year in which the work is finished.

General Directions

Any one intending to enter the University and desiring to arrange matters beforehand will address, "The University, Ada, Ohio."

A satisfactory assignment to classes can best be made at the beginning of the Fall quarter; however, students are admitted at the opening of any term.

The applicant for a degree, coming from another college, is required to spend at least thirty-six weeks in residence.

On arrival the newcomer is expected to report at once at the University office to receive needed information regarding lodging places and boarding houses, also obtain a card of matriculation and arrange his work.

Requests for Credits

To insure prompt attention, requests for credits, certificates of graduation, class standing, recommendations, et cetera, should be accompanied by a stamped self-addressed envelope.

Each student is entitled to one copy of his credits; 50 cents is charged for each additional copy.

EQUIPMENT

Location and Buildings

The **Campus** lies in a resident portion of the village, a few blocks south of the Pennsylvania Station.

On the campus stand four memorial buildings: On the south side, the **Dukes Memorial** with commodious classrooms, offices and laboratories, devoted to science, mathematics and engineering; in the center, the **Lehr Memorial**, in which are located the executive offices, the Y. M. and Y. W. C. A. rooms, the library and reading rooms, the apartments of Law and Commerce departments and a magnificent auditorium for chapel and other public meetings; to the north, the **Hill Memorial**, devoted to language, history, philosophy and education; in this building are the mechanical and electrical laboratories and the attractive halls of the Franklin and Philomathean literary societies.

In the northest angle of the campus is located **Brown Memorial**, fitted and equipped for gymnasium and used as an assembly hall for social functions. Recently a wing has been added, with equipment and special appliances for instruction in Domestic Science. The University Cafeteria is located in the basement.

Pharmacy Hall, in the northwest angle, especially arranged and equipped for the College of Pharmacy, contains also the spacious assembly room of the Adelphian literary society.

Just outside, southwest of the quadrangle, is **Music Hall** with assembly room, offices and private practice rooms.

An experimental **Greenhouse** of ample size has been erected recently.

A modern **Power Plant** is under construction.

Laboratories and Museum

The Biological Laboratories, located on the second floor of Dukes Memorial, are well lighted and equipped with water, gas and electricity. The department makes use of a lantern to illustrate lectures and other phases of the work. In the laboratories is found an ample supply of reagents, stains and glassware, also oil-immersion lens, dissecting microscopes, camera lucida, micrometer eye-pieces, a large rotary microtome, hand microtome, paraffin bath, microscopic slides, models, charts, and preserved materials for study—enough material and apparatus to do modern work in the courses offered.

The greenhouse before mentioned offers facilities for many phases of class work and laboratory practice in Biology, Horticulture and Pharmaceutical Botany. An aquarium also furnishes much material for study.

The University was recently the recipient of a modern X-ray machine from Dr. A. S. McKitrick, of the McKitrick hospital, Kenton, Ohio. The machine is of the type used for all kinds of biological and hospital X-ray work. This piece of apparatus will be especially valuable to pre-medical students and others in the science departments.

Dr. McKitrick, the donor, is an alumnus of the institution, and also a member of the Board of Trustees.

The Chemical and Physical Laboratories are large, well-lighted, and equipped with natural gas and alternating and direct current. In the general chemical laboratory are one hundred and twelve lockers with first-class outfits, including all apparatus necessary for thorough individual work. A modern equipped Volumetric laboratory with individual lockers has been installed recently. The physical laboratory has ample accommodation for more than one hundred and fifty students, with apparatus for experimentation both in preparatory and college Sophomore physics.

The Pharmaceutical and Dispensing Laboratories, occupying the entire basement of Pharmacy Hall, are supplied with modern apparatus and desk arrangements; the equipment affording every facility for thorough individual work in practical chemistry and the various pharmaceutical preparations. The equipment includes a complete outfit for gold and silver assaying and other metallurgical work. In the "specimen room" is an interesting exhibit of all the crude drugs of materia medica, a complete line of U. S. P. chemicals, a fine case of salts and alkaloids, and another of biological specimens, such as serums, antitoxins, and the like. On the first floor a well-lighted microscopical laboratory is supplied with an outfit of compound microscopes, accessories and appliances for special work in pharmacal micro-technique.

Civil, Mechanical and Electrical Laboratories are described under the caption, "College of Engineering."

The Museum contains numerous specimens and collections for illustrating geology and the biological sciences. In the geological alcove are found many of the common minerals and ores, many rare ones, meteorites, plant and animal fossils representing several of the chief orders of geological importance, the shells and skeletons of many living molluscs and vertebrates. The zoological alcove exhibits about 200 birds, representing one or both sexes of nearly all of those common to this region, all animals, native to Ohio, many kinds of snakes, and several hundred specimens, of the orders of invertebrates preserved in jars. For illustrations in anatomy a human skeleton and structural models of various organs are at hand.

Recently, through good will and generosity there has come into the possession of Ohio Northern a private collection of rare and valuable geological specoimens, the result of years of enthusiastic study and research on the part of the donor, Mr. E. R. Webber, of Kenton, Ohio. "May his tribe increase!"

Library

In the disastrous fire of 1913 the University lost its library. In its stead there is being established by purchase and gift a new and better one, in apartments built for the purpose, on the second floor of Lehr Memorial. Here in spacious and well-lighted quarters have been provided a reading room accommodating one hundred and fifty students, and a stack room with capacity for 60,000 volumes. To the south, on the same floor, is located the Law Department with a legal reference library of some 2000 volumes.

The University makes definite provision for the building up of the library, but, since books are costly and anything like an adequate equipment means a large investment of money, all the friends of the institution are earnestly invited to assist by making donations of up-to-date books and by generously contributing funds. The departments of history, literature, sociology, economics and philosophy especially suffered from the fire. Any contribution of libraries and single volumes practically serviceable in these and the other fields of learning will be gratefully received and acknowledged. Those desiring to make donations and not knowing just what would meet the need, kindly communicate with the heads of departments concerning the matter. A sum of $3000 is set aside annually by the University to augment contributions.

Athletic Field

Within a block and a half of the Campus, lie the Athletic Grounds, owned and controlled by the University, on whose area of several acres the Baseball Diamond, the Football Gridiron, the Running Track, and the Lawn Tennis Courts are located.

University Farm

The University possesses a tract of land, well equipped with buildings and modern equipment within a block and a half of the Campus, containing ninety acres of rich, productive soil under cultivation, devoted to the practical demonstration of farm products and problems.

President's Home

By action of the Board of Trustees a desirable property a square from the Campus has been purchased as a residence for the President of the University.

STUDENT SOCIETIES AND ACTIVITIES

Literary Societies. Three Literary Societies, chartered, and meeting in furnished assembly rooms, are maintained by the students exclusively—the Franklin, Philomathean and Adelphian.

Under the supervision of the societies, clubs are organized each term for practice in debate, extempore speaking, and parliamentary law.

The Ohio Northern Debating Association, a student organization, arranges for and engages in forensic contests between Ohio Northern and other institutions. Membership is open to any student interested in the object of the association, irrespective of department. A certain per cent of the Student Activity fee is appropriated to the maintenance of forensic work. Debators are selected and assisted in their training by a faculty committee. As a mark of distinction the University letter is awarded to those participating in intercollegiate contests.

Christian Associations. The Young Men's and Young Women's Christian Associations have enthusiastic organizations in the University and wield a most wholesome influence on the lives and habits of the students.

The Young Women's Christian Association has a membership including about ninety per cent, of all the young women in attendance at the school.

A devotional meeting open to all the University women is held weekly. At the beginning of each quarter Bible and Mission Study classes are organized under efficient teachers.

Both Y. M. C. A. and Y. W. C. A. Bible Study classes and religious meetings are open respectively to all men and women enrolled in the University.

Moral and Religious Culture

Much attention is given to awakening and fostering an aspiration to attain to the highest type of Christian manhood and womanhood.

While the University is the property of the West Ohio Conference of the Methodist Episcopal Church and is denominational in its ownership and control, it is in no sense sectarian. Students of all religious denominations are received on equal terms and treated with equal consideration. They are urged to identify themselves with the work and participate regularly in the services of the church of their choice. The six churches of the city cordially welcome students to their religious and social meetings and Bible classes.

The department of Philosophy and Religious Education mentioned elsewhere gives opportunity to those who wish to take up the study of religious problems to fit themselves for life's work.

Musical Organizations

Choral Society. The Choral Society is made up of both university students and townspeople and is open to all who love good music. The society meets every Monday evening that school is in session during the first three quarters. The fees charged are nominal. The society aims to give two public performances each year.

Men's Glee Club. A glee club of twenty voices has been organized, for the purpose of giving home concerts and touring the state each year.

Girls' Glee Club. This club is organized to learn the best in choral works written for female voices, and to give concerts each year.

Orchestra. A large orchestra is being organized to take up standard works of the great composers, and to play at the concerts of the Choral Society.

Band. A splendid band is maintained, affording an opportunity for practice to students playing brass or reed instruments.

Publications

The "**Annual**" is a sumptous serio-comic volume published by each out-going class, and is always awaited with eagerness and treasured as a souvenir of college days.

"The Northern Review" is the college paper. It is published during the regular college year by the students of the University.

Athletics

College teams in baseball, football, basketball and track athletics are maintained. Interdepartmental, inter-class and intersociety sports are also encouraged.

The department of Athletics is managed by a Board of Directors, comprised of the Faculty Committee on Athletics (appointed by the President of the University), the Athletic Director, and a student member for each college sport; the student members being elected by the Athletic Association, a student organization, to which any student of the University may belong.

Ohio Northern became a member of "Ohio Conference," better known as the "Big Six" of Ohio, on October 13, 1916.

A fee of $1.00 per quarter is charged for use of gymnasium including locker and bath. Upon payment of tuition, the student receives a ticket of admission to all intercollegiate athletic events.

Lectures and Concerts

An excellent series of lectures and concerts is given each year. The best talent, both in the lecture field and musical world is brought before the student body.

Technical and Social Organizations

The following technical organizations have regular meetings:

The American Institute of Electrical Engineers.
The American Association of Engineers.
The American Society of Mechanical Engineers.
The Chemical Engineering Society.
The Pharmaceutical Association.

The Law Association, the Educational Association, the Commercial Club, State Clubs, and the Pre-medical Association also have their regular meetings. Topics pertaining to the several departments are discussed, and addresses are given by people prominent in their respective lines of work.

Assemblies

Convocations are held each school day except Monday, from 8:00 to 8:30 a. m. The aim of which is not only to recognize the duty and privilege of daily devotions, but to foster a university spirit by bringing together into one assembly the students of the several departments to listen to practical addresses and talks from members of the faculty and others, and to be entertained by those connected with the departments of Music and Expression. Attendance is compulsory. One-fifth credit hour demerit for each absence above five.

At the public functions of Commencement week, members of the faculty and of the graduating class wear academic costume in keeping with their degrees. The University colors are orange and black.

Room, Board and Home Comforts

In order to insure good wholesome food and plenty of it at the very least possible cost to the student, the University has recently installed a large, well equipped Cafeteria in the Brown Building. This is very much more than "an eating place". With beautiful furnishings and home comforts, this is truly a happy campus "Community center". It is open to the public.

Good board in private homes, $3.50 to $4.50 per week.

Meal tickets at restaurant, $4.50 to $5.00 per week.

Ada is strictly a school town. The citizens throw open their homes to the students. They have long been noted for their hospitality. Since a majority of the families are engaged in rooming students, the competition is sharp and prices are low. Rooms vary from $1.50 to $2.50 per week according to location and appointments.

EXPENSES

Matriculation

No matriculation or entrance fee is required to enter the University. Some schools advertise free tuition, but it will be found that entrance fees with them amount to more than tuition fees here, a fact not to be overlooked by those selecting a school thorough, yet less expensive.

All fees such as Matriculation, Registration, Library, Student Activity, etc., are included in tuition charges execpt a small maintenance fee in laboratory and field work, also a locker fee in Physical Education.

Tuition Rates

In the Departments of Liberal Arts, Education, Engineering, Commerce, Agriculture, and Preparatory School, tuition rates are as follows:

For one quarter, (12 weeks), in advance	$ 34.00
For two quarters, in advance	67.00
For three quarters, in advance	100.00

In the College of Law:

For one quarter (12 weeks), in advance	$ 38.00
For two quarters, in advance	75.00
For three quarters, in advance	109.00

In the College of Pharmacy:

Tuition for 32 weeks, including drugs, chemicals and laboratory fee, in advance	$125.00

In the College of Music, School of Expression, and School of Fine Arts:

Tuition rates in detail given in the description of the respective departments.

All students paying the regular tuition fee are admitted to the general classes in Rudimental Music without extra charge.

The tuition rates for the Summer quarter in the College of Education, are $25.00 for the 12 weeks, or $14.00 for 6 weeks.

Laboratory Fees

Fees to cover cost of chemicals and other materials used in the laboratories are charged each term as follows:

Preparatory and College

Inorganic Chemistry I, II, and III, per quarter, $4.00; all others, $5.00. Preparatory Physics, $2.50; College Physics, $3.00. Biology, Botany and Zoology, each $2.50. Physiology, $1.00. Preparatory Botany, $1.00. Domestic Science, $8.00. Horticulture, $2.50. Agriculture, $1.50. Engineering, Plane Surveying, Field Engineering, Railroad Engineering, each $2.50; Mechanical Engineering, $3.00; Electrical, $4.00; Electrical IX, $7.00; Machine Shop, $2.00; Testing of Materials, $3.00; Gymnasium (including locker fee), $2.00.

Special Fees—Bookkeeping and Stenography

A fee of $5.00 is charged on entering the Office Practice and Banking Classes for use of ledgers, commercial paper and other supplies.

A fee of $4.00 is charged for use of typewriter twelve weeks, one hour a day; two hours per day, twelve weeks, $7.00. A fee of $10 is charged for use of post-machine and calculator per quarter. All who pay the above fees are entitled to free use of the Burroughs Adding Machine. Others are charged $1.00.

Graduation Fees

Neatly executed diplomas are awarded to those who complete any regular course of study. The diploma fee is $5.00 for paper, $6.00 for vellum and $7.00 for parchment.

Refunding

In case of withdrawal from college, or change of course, within two days of registration, $1.00 will be charged. After two days, refunds will be made on the following basis: Before the end of two weeks, 80%; before the end of four weeks, 60%; before the end of six weeks, 40%; after the sixth week no refund of fees will be made. Receipts are not transferable.

Failure to Preregister

Students failing to preregister will be penalized $1.00 upon their next registration unless more than two quarters intervene. This does not apply to new registrants.

AID TO STUDENTS

Loan Fund. The Board of Education of the Methodist Episcopal Church lends money to members of that church taking a regular course in school, who have been in attendance long enough to merit a recommendation from the Faculty. No interest is charged if the debt is paid within five years from the time of leaving school, but a payment of $5.00 each year must be made on the principal, after the applicant quits school. The only security required is a recommendation from a quarterly conference. Loans are made at the beginning of each quarter. Application should be made two weeks before the opening of the quarter and no applicant can be received later than the close of the first week of the quarter. The maximum amount allowed to each applicant is $100 a year. An applicant must have been in attendance at least one quarter.

Scholarships. The University has received through generous donors six scholarships of $1000.00 each, the income of which, amounting to $50 to $60 per year, is to be devoted to the assistance of worthy students. The recipients of these incomes may be chosen by the donors and when not so chosen, shall be selected by the President and the Faculty of the University, and must have been in attendance at least one term before receiving aid. The scholarships are as follows:

1. The J. T. Cunningham Scholarship, M. E. Cunningham, Mrs. L. A. Cunningham, and George T. McCoppin, Ada, Ohio.
2. The George Franklin Getty Scholarship, by George F. Getty, Los Angeles, Calif.
3. The James E. and Caroline Purvis Scholarship, by James S. Purvis, Bremen, Ohio.
4. The Parlette Scholarship, by Ralph Parlette of Chicago, Illinois.
5. The Pleasant Hill Society of the Roundhead Circuit of the Methodist Episcopal Church.
6. The Stambaugh Scholarship of $100 per year, by Mrs. Avanell Stambaugh of Ada, Ohio.

Prizes. Through the President of the University, prizes of $15 and $10 are awarded to winners in an annual oratorical contest among the three Literary Societies.

Miss Pearl A. M. Stahl offers $15 and $10 prizes annually to the two successful members of the Philomathean Society.

Dr. George W. Crile, of Cleveland, an alumnus, has permanently provided for $15 and $10 prizes for the winners in the Adelphian Literary Society.

Mr. George F. Getty, '79, offers $15 and $10 prizes annually to the members of the Philomathean Literary Society winning honors in debate.

Hon. Homer A. Ramey, '16, Toledo, Ohio, $15.00 and $10.00 prizes annually to the members of the Philomathean Literary Society winning honors in debate.

Hon. S. A. Hoskins, Columbus, O., $15.00 and $10.00 prizes to the members of the Franklin Literary Society winning honors in debate.

Mr. G. Frederick Pfeiffer of Akron, Ohio., gives $25 a year to the engineer making the most quality points.

Mrs. Caroline Ames of Ada, Ohio, gives $25 a year for five years for winners in the college song contest.

Mrs. Avanell Stambaugh of Ada, Ohio, gives $20 a year for five years for winners in the song contest.

Work. Many students in the University earn a part of their expenses by working as waiters and janitors, and at other occupations in the town and vicinity.

ADMISSION AND ENTRANCE

Only men and women of good moral character are admitted to the University. Students submitting transcripts from other schools must furnish evidence of honorable dismissal from the same.

Fifteen units of High School work are required for entrance to any of the colleges of the University. These units must be properly distributed. Units will be accepted from first grade High Schools, Academies, or Preparatory Schools. The acceptance of work from schools of lower rank will be determined by the entrance committee. (See individual College Section for proper distribution of units).

Entrance examinations will be given the first day of each quarter to those who make advanced application for the same. (See Calendar for dates).

Mature students not working for a degree may be admitted to the University providing they present their reasons for desiring this kind of work and show that they are qualified to pursue the subjects desired. Under no circumstances can such students become candidates for a degree. They are classed as "Special Students."

The official forms for certificates of entrance which may be had on application to the entrance examiner, should be used in all cases, in order to insure the presentation of necessary information.

The credited statement of entrance credits which should be sent by the Principal of the school **directly** to the University, must be in the Registrar's office ten days prior to the opening of the quarter to avoid delay in registration.

Only a provisional registration will be made with absence of these credits. If they are not forthcoming within three weeks, the student will be suspended from classes until entrance credits are in the hands of the Entrance Examiner.

Registration

The registration days for each quarter are indicated in the Calendar (see page2). Failure to register on these days will subject the delinquent to the following "Cuts for Class Absence." One-fifth (1/5) credit hour for each subject each day first week, and two credit hours for each week's absence thereafter.

The first duty of the new student is to matriculate.

After matriculation, (and also at the beginning of each quarter,) the student is given a registration card, which he carries to the Dean of his department. The Dean advises and directs what subjects are to be pursued during the quarter and indicates these, together with his approval, on the registration card. The student then presents the registration card to the Treasurer of the University, pays the required fees, and is given a receipt which becomes a ticket of admission to the classes named thereon.

The Deans will be in their offices on Monday and Tuesday to advise students concerning their work for the quarter.

Discipline

The opportunities and advantages of the University are offered to all sincerely desiring to develop the best in themsleves, and aiming at a broad culture and a thorough preparation for useful service.

Self-government is made the key-note in discipline. All are treated as ladies and gentlemen until they prove themselves otherwise. Incorrigible and morally corrupt persons are summarily dismissed from the institution. Every possible help is afforded in the formation of right habits, but those who cannot govern themselves are not wanted.

Regular attendance upon class work, prompt response to duty, and thoroughness in all assigned tasks are insisted on, not more for their bearing on scholarship than for their effect upon conduct and life.

The following rules on absences from class exercises are strictly enforced.

Each student is required to attend every session of the classes in which he is registered. All absences shall be reported to the instructor upon a regular form furnished by the registrar. This report shall give class, date, and reason for absence and must be submitted to the instructor immediately after the occurrence of the absence. Failure on the part of the student to secure and submit such form, automatically debars him from consideration by the Committee.

Five absences are allowed from Chapel attendance, after which this rule become effective.

Final action on this report will be taken by the "Attendance Committee" of which the registrar shall be chairman. The committee may or may not grant an excuse for such absence. **Unexcused absences reduce the college credits one-fifth of an hour for each absence.**

Unexcused absences during the two days preceding or the two days following a holiday will count double.

The "Attendance Committee," or the instructor, is empowered to exclude from a course any student whom they may consider to have been absent so often as to seriously impair his class standing. Any student so excluded will be given a mark of F.

Any student affiliating himself or herself with any organization not having Faculty or Trustee sanction will be summarily dismissed.

Dropping or Changing a Course

In case a student desires to drop or change a course, it must be done within seven days after registration in any quarter, and with the consent of his dean or director and professors concerned.

MARKS AND EXAMINATIONS

The credit value of a course is expressed in hours, an hour of credit being given for the satisfactory completion of work requiring one class exercise a week for one quarter. It is equivalent to two-thirds of a semester-hour.

Grade Marks. Ex. excellent; G. good; Av. average; P. passing; Cn. conditioned; F. failure.

Cn. means that the grade has been withheld because the work of the course has not been completed.

F. means that the student receives no credit whatever for the course, and it must be taken again.

Ex. means that "a student has grasped the subject of a course and, by thinking about it and reacting upon it, has made it his own; it represents industry and thoroughness, as well as natural ability and individual insight."

G. means that "a student has intelligently fulfilled the requirements for a course, but without showing decided ability and individual insight in reacting upon the subject so as to call it entirely his own."

Av. means "fair work, either steady work of a mediocre quality, or work of a higher quality which is uneven, irregular or fragmentary."

P. means that the student's work is "barely passing."

All grades of Cn. must be removed by examination during the next quarter of residence. Otherwise the grade becomes F.

All subjects in which a grade of F is made must be taken again the first quarter in which the subject is given after the grade was made.

Examinations. Mid-term examinations are held at the discretion of each professor. Final examinations are held as indicated in the calendar.

In order to graduate in any course the student must have one (1) quality point for every credit hour.

Points are based on the credit marks, as follows: Each hour of Ex. counts 3 points; of G., 2 points; of Av., 1 point; of P., 0 point; of Cn.,-2 points; of F., -3 points.

A student making marks of F or Cn in more than one-half of his assigned work for any quarter will be denied future registration except he first petitions the faculty and gains their consent to future registration.

DEGREES

The work of the University is entirely undergraduate.

The Bachelor's degree is given in all of the 180 hour courses of the University, except Law (135 hours).

A diploma is given in the two-year courses in Education, Commerce, Pharmacy, Music and Expression.

Certificates are issued in the Preparatory School, and in one year courses in the School of Commerce and Expression.

ORGANIZATION

1. The College of Liberal Arts.
2. The College of Education.
3. The College of Engineering.
4. The College of Law.
5. The College of Pharmacy.
6. The A. D. Juilliard School of Music.
7. The School of Commerce.
8. The School of Agriculture.
9. The School of Expression.
10. The Preparatory School.
11. The School of Physical Education.
12. The School of Religion.

Faculty Meetings

General faculty meetings are held on Tuesday of the second and seventh weeks of each quarter. Time, 3:00 p. m.

Departmental faculty meetings are held on Tuesday of the fourth and ninth weeks of each quarter. Time, 3:00 p. m.

COLLEGE
OF
LIBERAL ARTS

HARVEY EVERT HUBER, DEAN

ADMISSION TO COLLEGE OF LIBERAL ARTS

Candidates of good moral character may apply for admission upon the following plans:

1. **By certificate.** Graduates from first grade high schools or accredited academies whose credits show proper distribution of units are admitted, without examination, on presentation of properly signed entrance certificates. These certificates must be made out and signed by the proper official of the school from which the applicant comes, and show in detail (1) the text book used in each subject, (2) the amount of work completed, (3) the number of weeks spent thereon, (4) the length in minutes of the recitation period, and (5) the mark or grade secured. Blanks for this purpose may be had by addressing "The University Entrance Examiner." This entrance certificate should reach the Registrar's office at least ten days before the time when student expects to enter. Candidates for admission are strongly urged to attend to this matter as early as possible.

2. **By Examination.** Candidates who are not graduates of first grade high schools or academies and are therefore deficient in some of the units for admission may be admitted upon examination. Applicants must notify the Entrance Examiner in advance so that arrangements may be made to hold examinations on first day of registration.

3. **On Advanced Standing.** An applicant from another college, seeking for advanced standing must present (1) evidence of honorable dismissal, (2) a full record of the applicant's preparation for college, (3) a transcript of his college record, subject by subject, with the grade obtained in each and the hours credited. He should submit a catalogue of his college, bearing his name and of the issue current at the time of his admission to that college.

Advance credit will not be given for more than 135 quarter hours (90 semester hours).

4. **As Special Student.** Those persons not desiring to earn a degree may enter any department and pursue the studies they choose, if, on consultation, the head of the department is satisfied that they have sufficient preparation to pursue the

work successfully. Such applicants are classified as "Special Students."

Entrance Requirements

Fifteen units are required for unconditional entrance to the college. Students with fourteen units are admitted on condition that the deficient unit be made up during the first four quarters of residence. No student is admitted to Freshman rank with less than fourteen units. The deficient unit may be removed by taking courses in the Preparatory School of the Ohio Northern University, by examination, or by substituting certain Freshman collegiate courses. During the Summer quarter the student has splendid opportunity for removing the deficiency in entrance.

Distribution of Entrance Units

Fifteen units distributed as indicated below are required for entrance, and no student is admitted to Freshman rank who does not present at least fourteen units.

1. The following 9 units are prescribed for all.

English, 3
Foreign language, 2 (which must be in one subject).
Mathematics, 2
History, 1
Science, 1

2. At least 4 additional units must be selected from the following subjects, the number indicating the maximum number of units that will be accepted in any subject:

English, 4
Greek, 3
Latin, 4
French, 3
German, 4
Spanish, 3
History and Civics, 4
Mathematics, 3
Physics, 1
Chemistry, 1
Phys. Geog., 1
Botany, 1
Zoology, 1
Physiology, 1
Agriculture, 1
General Science, 1

3. Not more than two units may be presented from the following subjects:

Mechanical Drawing, 1
Freehand Drawing, 1
Domestic Science, 1
Stenography (if a full unit) 1
Manual Training or Shop Work, 1
Commercial Law, 1
Commercial Geography, 1

4. The Entrance Committee, consulting with the department concerned, may consider the acceptance of:

Astronomy, ½	Psychology, ½
Bible, ½	Sociology, ½
Economics, ½	

5. The certified statement of entrance credits must be in the Registrar's office ten days prior to opening of Quarter to avoid delay in registration. The student will be subject to suspension from classes if entrance credits are not in the registrar's office within three weeks after registration.

Excess Entrance Credits

Candidates who present sixteen or more units may, at the option of the Entrance Examiner, receive advance credit for certain courses on the basis of eight quarter hours for one high school unit. Credit in foreign language may be obtained only when student offers for entrance more than four units of foreign language. Applicants for excess credit must show exceptional ability in college courses during the first two quarters of residence. The credit must be secured during the third quarter of residence in the University.

Advisers

On his admission to college rank each student is placed in charge of an adviser. This adviser, a member of the faculty, is appointed by the dean of the College in which the student is enrolled.

The duty of the adviser is to counsel the student in regard to the planning of courses, the selection of studies, and to aid him in the problems of his college life and work.

This adviser retains oversight over the student assigned to him, until the student has finished 90 quarter hours of work. At the end of 90 quarter hours the student should elect the department in which he desires to complete his major work, and the professor in charge of that department then becomes his adviser.

COLLEGIATE COURSES

The regular courses of instruction offered in the College of Liberal Arts are classified in the following departments:

Agriculture
Biology
Chemistry
Education
English
Greek
History
Latin
Mathematics
Modern Languages
Philosophy and Religious Education
Physics
Psychology and Sociology
Political Science and Economics

From the courses offered in the departments named above, schedules are arranged, consisting of prescribed and elective courses leading to the degrees of A. B. and B. S.

To aid the student in planning major and minor courses, the following grouping is set forth:

DIVISION A

Group I.

Major: Bible and Christian Religion
Minors: Psychology
Philosophy

Group II.

Major: Economics and Sociology
Minors: Political Science, History, Psychology, Biology

Group III.

Major: English Language and Literature
Minors: English History
Latin or French

Group IV.

Major: History
Minors: Economics, English
Political Science

Group V.

Major: Latin Language and Literature
Minors: Greek, Modern Language
European History

Group VI.

Major: Modern Language and Literature
Minors: Ancient or Modern Language, History

Group VII.

Major: Philosophy and Sociology
Minors: Bible and Christian Religion, Education

Group VIII.

Major: Political Science
Minors: Economics, Education, History

DIVISION B

Group IX.

Major: Biology
Minors: Chemistry, Physics, Sociology

Group X.

Major: Chemistry
Minors: Physics, Biology
Mathematics

Group XI.

Major: Mathematics
Minors: Physics, Astronomy

Group XII.

Major: Physics
Minors. Chemistry, Mathematics

Credits for the following are required of all candidates for degrees:

English	18
Foreign Language	15
History	9
Science	9 to 12
Psychology	9
Political Science	9
Sociology	9
English Bible	9
Biology 9 or Physics	12
Mathematics 14 or Foreign Language	12

Courses Open to Freshman

Biology 1, 2, 3, 7, 8, 9.
Chemistry 1, 2, 3.
Physics 12.
English 1, 2, 21.
History 1, 2, 3.
Mathematics 1, 2, 3, 4, 5.
Latin 5, 6, 7 (if four units have been presented as entrance credits.)
Greek 1, 2, 3.
German 5, 6, 7, (if two units have been presented as entrance credits.)
French 5, 6, 7, (if two units have been presented as entrance credits.)
Economics 10, 11, 12.

Schedule of Prescribed Courses

The following is the schedule of the prescribed courses arranged by years and quarters (Fall, Winter, Spring).

First Year

English 1, 2, 21.
Science (Physical or Biological)
History 1, 2, 3.
Foreign Language

Second Year

English 3, 23, 11 or English 6, 7, 11.
Biology 1, 2, 3 or Physics 9, 10, 11.
Psychology 1, 2, 3.
Political Science 1, 2, 3.

Third Year

Sociology 1, 2, 3.
Bible 1, 2, 3.

Fourth Year

Courses elective. By continuing in residence during the Summer quarters the entire college course may be completed in three years. Many of the Summer quarter courses are electives.

Majors and Minors

The candidate for a degree must complete in a logical sequence a major of not less than 27 quarter-hours and a minor of not less than 18 quarter-hours, to be selected from a group in one division; and an orderly sequence of at least 15 quarter-hours in the other division (this constitutes the second minor). In addition to the required courses and the major and minor courses, the student may select, with advice, enough free electives from either or both divisions to bring total up to 180 quarter-hours.

First year courses in Foreign Languages, English 1 and 2 and History 1, 2 and 3 may not be counted toward a major.

GENERAL REGULATIONS

1. The credit value of a course is expressed in hours, an hour of credit being given for the satisfactory completion of work requiring one class exercise a week for one quarter. It is equivalent to two-thirds of a semester-hour.

2. The student may not register for more than sixteen hours of work unless he has received a credit of G. or better in all work of the preceding quarter. The student is advised to carry not more than 18 hours. If the previous record of a student shows that he is able, his Dean may grant extra hours, an honor course, provided the student petitions the faculty committee and gains their consent.

3. No student will receive credit for a subject taken in a class in which he has not been duly registered.

4 . The student is held responsible for the work scheduled on the registration card. No course may be dropped or changed except by consent of the Dean and the instructors concerned. Withdrawal from a course without permission shall be checked as a failure in the course.

5. All courses that are conditioned or failed must be successfully completed according to rules in general section of catalogue.

6. Any student wishing to withdraw from this College must notify the Dean and Registrar of his intentions. Failure to do this will jeopardize the standing of the student.

7. No student may be a candidate for a degree who has not been in residence at least three quarters.

8. Mid-term examinations are held at the discretion of each instructor. Final examinations are held during the last week

of each quarter as indicated in the calendar. Unexcused absence from any regular examination shall be construed as a failure.

9. No course in which a student has received a grade of P is accepted toward a major.

10. Any student who fails at the end of any quarter to secure full credit for two-thirds of his scheduled courses shall be considered to be on probation for the following quarter.

11. A student making marks of F or Cn in more than one-half of his assigned work for any quarter will be denied future registration except he first petitions the faculty and gains their consent to future registration.

Classification of Students

For Freshman Standing. No student will be classified as a freshman who has less than fourteen units as entrance credit. Fifteen units are required for unconditioned entrance.

For Junior Standing. The completion of at least 90 quarter-hours and not less than 100 quality points.

For Senior Standing. The completion of at least 135 quarter-hours and not less than 135 quality points.

Conditions of Graduation

As a condition of graduation, a student must complete 186 hours (including six hours of physical education) this being the equivalent of fifteen class exercises a week for twelve quarters.

On credits made after September 1, 1920, as a further condition of graduation, a student must have earned 180 quality points. Points are based on the credit marks, as follows: Each hour of Ex (excellent) counts 3 points; of G, (good) 2 points; of Av, (average) 1 point; of P, (pass) 0 point; of Cn, (condition) -2 points; and of F, (fail) -3 points.

Diplomas are awarded at the Commencement exercises, which are held but once a year, at the close of the Spring Quarter. Those who have finished their work at the close of any previous quarter are expected, as far as possible, to be present at the commencement exercises. Those whose work, beyond question, will be finished by the close of the Summer

Quarter are entitled to all the privileges of the graduating class, but the diplomas are not issued until the requirements are fully met. In order to have a seat and part in the class organization, credentials must be obtained from the Registrar.

PRE-PROFESSIONAL COURSES

Pre-Medical Course

Medical Colleges of first rank demand as minimum requirements for admission that the candidate shall have completed a four-year high school or preparatory course with at least 15 units credit, and the first two years, or equivalent, of a college course which stresses the basal sciences upon which the study of medicine rests.

A total of not less than 90 quarter hours (60 semester hours), exclusive of physical education, are required. Altho 90 credit hours of satisfactory work may admit the student to the study of medicine, yet it is highly recommended by both the faculty of Ohio Northern University and the Medical College faculties that the college work should include three years or 135 quarter-hours (90 semester hours).

The pre-medical student may begin the work during the Summer Quarter. However, it is much more desirable that the work be started with the Fall Quarter. The collegiate courses which are required of pre-medical students are represented in the following table:

FIRST YEAR

Fall Quarter	Winter Quarter	Spring Quarter
English 1	English 2	English 21
French or German	French or German	French or German
Chemistry 1	Chemistry 2	Chemistry 3
Biology 1	Biology 2	Biology 3

SECOND YEAR

Fall Quarter	Winter Quarter	Spring Quarter
French or German	French or German	French or German
Biology 4	Biology 5	Biology 6
Chemistry (organic)	Chemistry (organic)	Chemistry (quan.)
Physics 9	Physics 10	Physics 11
Psychology 1	Psychology 2	Psychology 3

Students who expect to enter Medical Colleges that require Latin for admission should plan to complete two units (Latin Grammar and Cæsar) while in the high school, or in the Preparatory School of Ohio Northern, in addition to the above courses. Students having had a year laboratory course in high school Biology may omit college Biology the first year, and substitute the courses in Zoology. In case this is done Mammalian Anatomy and courses in Sociology or Economics may be substituted for Zoology during the second year.

Arts-Medicine Combination Course

Upon the completion of nine quarters of work in the College of Liberal Arts, the student may be granted a leave of absence for the Senior year, and receive the Bachelor of Science degree upon the successful completion of the first year of work in the medical school. This means a saving of at least one year of time. Pre-medical students are urged to give favorable consideration to the combination course and receive both the B. S. degree from this institution and the professional degree from the medical school.

The following regulations obtain:

1. At least 140 quarter-hours, exclusive of physical education are required, which must include the regular prescribed courses for the Bachelor's degree.

2. At least 90 quarter hours must be completed in this institution.

3. The student must maintain a high standard of scholarship in order that the first year of medicine may apply as Senior work.

4. The student is subject to the regulations, as far as they admit, of the College or Liberal Arts until graduation.

5. The medical work must be done in an A class medical school.

6. Certificates of the completion, with high grade, of the first year's work in the medical school.

Pre-Dental Work

The better dental schools of the country are requiring one year of collegiate work, known as a pre-dental year, consisting of at least 45 quarter-hours (30 semester hours), in addition to the completion of 15 units of high school work. By agreement these schools insist that in these hours should be included at least 9 quarter-hours of college chemistry, 9 quarter-hours of biology or zoology and 9 quarter-hours of college English. Unless the student has offered one unit of high school physics as entrance, an equivalent of college physics must also be taken. Additional hours to complete the schedule may be taken as indicated in the pre-dental course following:

FIRST YEAR

Fall Quarter	Winter Quarter	Spring Quarter
English 1	English 2	English 21
Chemistry 1	Chemistry 2	Chemistry 3
Biology 1 or Biology 4	Biology 2 or Biology 5	Biology 3 or Biology 6
Physics 9	Physics 10	Physics 11

If the student presents evidence that he has had a satisfactory course in high school Biology, he may elect the courses in Zoology instead of those in Biology. The courses in college Physics are optional, if student enters with one unit of high school physics. In case the courses in physics are not required an option is given on year's work in one of the following: Psychology 1, 2, 3; Economics 1, 2, 3; History 1, 2, 3. The student is permitted to carry 15 to 17 hours per week.

Pre-Commerce Course

The Pre-Commerce Course outlined is designed to meet the requirements of colleges and universities that provide commerce courses leading to degrees. It provides a basis for the more specialized courses that are to follow in the third and fourth years, thus making an introduction to those specialized courses that train for leadership in business. Students will do well to select the institution in which they expect to complete their commerce work so that their pre-commerce studies may properly coalesce with those of the institution selected.

FIRST YEAR

Fall Quarter	Winter Quarter	Spring Quarter
English 1	English 2	English 21
Mathematics 1	Mathematics 2	Mathematics 4
Modern Language	Modern Language	Modern Language
Economics 10	Economics 11	Economics 12

SECOND YEAR

Fall Quarter	Winter Quarter	Spring Quarter
English 3	English 23	English 11
Biology 1 or Chemistry 1	Biology 2 or Chemistry 2	Biology 3 or Chemistry 3
Modern Language	Modern Language	Modern Language
Psychology 1 or Accounting 1	Psychology 2 or Accounting 2	Psychology 3 or Economics 3
Economics 1	Economics 2	

If Chemistry is elected instead of Biology, one of the other courses must be omitted in the second year.

Pre-Agriculture Course

The University offers only those course in which it has ample laboratory facilities for thorough teaching. For this reason the school of Agriculture offers accredited instruction only for the first two years of a four year course, paralleling in these two years the curriculum of leading state agricultural colleges. Students are advised to complete their last two years in a State University, which, by reason of superior technical facilities for specialized courses, is enabled to serve the student more advantageously.

FIRST YEAR

Fall Quarter	**Winter Quarter**	**Spring Quarter**
Chemistry 1	Chemistry 2	Chemistry 3
English 1	English 2	English 21
Biology 7	Biology 8	Biology 9
Mathematics 1	Mechanical Drawing I.	Physics 12

SECOND YEAR

Fall Quarter	**Winter Quarter**	**Spring Quarter**
Biology 4	Biology 5	Biology 6
Economics 1	Economics 2	Economics 3
Modern Language	Modern Language	Modern Language
Horticulture 1	Horticulture 2	Horticulture 3

DESCRIPTION OF COURSES

NOTE: Unless otherwise indicated five hour courses meet daily, three hour courses meet on Monday, Wednesday and Friday, and two hour courses meet on Tuesday and Thursday.

Department of Agriculture

ASSISTANT PROFESSOR STAUFFER

Horticulture 1. Principles of Horticulture (Fall) **3 Hrs.**

Horticulture 2. Principles of Horticulture (Winter) **3 Hrs.**

The principles underlying plant growth and the factors of environment as they are related to orchard, garden, greenhouse and nursery practice are studied. Methods of propagation are taken up in detail. Two hours a week recitation, two hours laboratory.

Horticulture 3. Plant Varitions (Spring) **3 Hrs.**

A brief discussion of the history of heredity, evolution and plant improvement is followed by a study of the modification of plants under cultivation through variation and mutation. Lectures and recitations.

It is desirable that the study of these courses be either preceded by, or concurrently taken with, either Biology or Botany.

Department of Biology

DEAN HUBER AND ASSISTANT PROFESSOR STAUFFER

Biology 1. General Biology (Fall) **3 Hrs.**

Two hours a week lecture and discussion, three hours laboratory. 9:30—11:30.

Course I. deals with some of the essential problems found in plant life. Such topics are treated: Cell structure, tissue differentiation, methods of reproduction, food manufacture, metabolism, decay, evolution.

Biology 2. General Biology (Winter) **3 Hrs.**

Two hours a week lecture and discussion, three hours laboratory. 9:30—11:30. Course 2 is given to the study of biological facts as evidenced in the animal kingdom.

Biology 3. General Biology (Spring) **3 Hrs.**

Two hours a week lecure and discussion, three hours laboratory. 9:30J11:30. Course 3 is a continuation of General Biology 2. Prerequisite: Biology 2.

Biology 4. General Zoology (Fall) **4 Hrs.**

Two hours a week lecture and discussion, four hours laboratory. 8:30—11:30.

Biology 5. General Zoology, (Winter) **4 Hrs.**

Two hours a week lecture and discussion, four hours laboratory. 8:30—11:30.

Biology 6. General Zoology (Spring) **4 Hrs.**

Two hours a week lecture and discussion, four hours laboratory. 8:30—11:30.

These courses in General Zoology constitute a year's work. Representative types form the basis for the study of structure, relationship, development and distribution. Economic importance is given consideration. Prerequisites: Courses 1, 2, and 3 in General Biology. Premedical students presenting a year's work in high school Biology, including laboratory exercises, may omit the courses in General Biology upon advice from the instructor.

Biology 7. Botany (Fall) **4 Hrs.**

Two hours a week lecture and quiz. Four hours laboratory. 1:00—3:00.

Biology 8. Botany (Winter) **4 Hrs.**

Two hours a week lecture and quiz. Four hours laboratory. 1:00—3:00.

Biology 9. Botany (Spring) **4 Hrs.**

Two hours a week lecture and quiz. Four hours laboratory. 1:00—3:00.

The courses in Botany constitute a year's work. A major portion of the time is devoted to the consideration of the physiological processes of plants; the remainder of the year's work involves a study of the structure, development and evolution of plants. Prerequisites: Biology 1, 2, 3.

Biology 10. Systematic Botany (Summer) **3 Hrs.**

A systematic study of the local flora. Especially designed for teachers and agricultural students. Six to eight hours field work and laboratory per week.

Biology 11. Dendrology (Spring) **3 Hrs.**

7:00—11:30. Th. or Sat.

A laboratory and field course designed to acquaint the student with the trees and shrubs represented in the local flora, in both the winter and summer conditions. Lectures upon structure, classification, uses and distribution. Schaffner's Field Manual of Trees is used as a key.

Biology 12. Histological Technique and Biological Methods. **3 Hrs.**

Lecture and class work two hours, laboratory six to eight hours. Hours to be arranged. A practical course for students who intend to do advanced work and for teachers of biology. Methods of collecting, killing, preserving and preparing material for demonstration and laboratory purposes are considered. Problems which are likely to be met in the biological laboratory of secondary schools are discussed. Those desiring this course will notify the instructor several weeks in advance. Course limited to ten students. Laboratory fee to be fixed. Lecture and recitation two hours a week, laboratory six to eight hours. Prerequisites: Courses 4, 5, 6, 7, 8 and 9, or equivalent. Summer.

Biology 13. Mammalian Anatomy (Spring) 4 Hrs.

A thorough dissection is made of a typical mammal. This course is designed especially for pre-medical students. Two hours lecture and quiz, four hours laboratory. Hours to be arranged. Prerequisites: Biology 4, 5, 6. (1924).

Department of Chemistry

PROFESSORS SLEESMAN AND HARROD

Chemistry 1. General Inorganic Chemistry 4 Hrs.

Chemistry 2. General Inorganc Chemistry 4 Hrs.

Chemistry 3. General Inorganic Chemistry 4 Hrs.

Courses 1 and 2 consist of a careful study of the fundamental laws of chemistry, with special emphasis on gases, solutions, ionization, equilibrium, methods of determining molecular weights, and colloids. The principles involved are applied to the study of the common nonmetallic elements. Course 3 consists of a study of the physical and chemical properties of the common metallic elements and their compounds together with work in qualitative analysis. Each of these courses is given every Quarter. Three hours lecture and quiz, four hours laboratory.

Chemistry 4. Qualitative Analysis (Fall and Spring) 5 Hrs.

Chemistry 5. Qualitative Analysis. (Winter and Summer) 5 Hrs.

These courses give the student a thorough training in laboratory manipulation and a knowledge of the chief chemical reactions needed for the identification of the more common elements and their compounds. The theories of solution are emphasized. Laboratory work in Course 4 consists of experiments and reactions with known reagents; Course 5 with the analysis of at least twelve individual unknowns. Two hours lecture, six hours laboratory. Prerequisites: Chemistry 1, 2 and 3.

Chemistry 6. Organic Chemistry (Fall) 5 Hrs.

Chemistry 7. Organic Chemistry (Winter) 5 Hrs.

These courses constitute a study of the structure and constituents of the carbon compounds; the carbohydrates and hydrocarbons with their many addition and substitution products. Lecture and quiz three hours, four hours laboratory. Prerequisites: Chemistry 1, 2 and 3.

Chemistry 8. Quantitative Analysis (Spring) 5 Hrs.

Work in volumetric and gravimetric analysis; the determination of acidity and alkalinity; the analysis of inorganic and organic salts. Oxidation, reduction and iodimetry experiments are made. Lecture two hours, laboratory six hours. Prerequisites: Chemistry 4.

Chemistry 9. Analytical Chemistry (Spring)

A course designed to meet the requirements of students who desire to make a more thorough study of some special analytical methods. Work from the following subjects as well as others can be arranged: the analysis of coal and coke, ores, steel, clays, cement and limestone, water, boiler scale, slag, etc. Credit and hours to be arranged. Prerequisites: Chemistry 4, 5 and 8.

Chemistry 10. Industrial Organic Chemistry (Spring) 5 Hrs.

A course designed to acquaint the student with the application of organic compounds and analytical methods as applied to the industries. Lecture and quiz three hours, laboratory four to six hours. Prerequisites: Chemistry 6 and 7.

Chemistry 11. Industrial Inorganic Chemistry (Summer) 4 Hrs.

Lecture and discussion four hours a week. Prerequisites: Chemistry 1, 2 and 3.

Chemistry 12. Physical Chemistry (Spring) 3 Hrs.

A systematic study is made of the important theories and generalizations of the various fields of chemistry. Modern theories of solution, diffusion, dissociation, chemical equilibrium, osmosis, catalysis, electrical conductivity, mass action, and chemistry of colloids. The purpose of this course is to prepare premedical and other biological students for the study of biochemistry. Lecture and discussion of assigned readings. Prerequisites: Chemistry 4, 6, 7 and 8.

Department of Education

DR. DAVISON

History of Education 1. Before the Middle Ages (Fall 3 Hrs.

History of Education 2. During the Middle Ages (Winter) 3 Hrs.

History of Education 3. Modern Times (Spring) 3 Hrs.

History of Education 1, 2, and 3 are required of seniors in both courses in education, but the outside readings are adjusted to the special interests of both classes of students. Open to Liberal Arts students who have had psychology.

Secondary Education 1.. Principles and Problems (Fall) 3 Hrs.

Secondary Education 2. Principles and Problems (Winter) 3 Hrs.

Secondary Education 3. Principles and Problems (Spring) 3 Hrs.

The principles of education founded upon psychology, biology and sociology are studied to final working bases. The dogmatical is not attempted, but a rational view-point towards present educational problems is emphasized. Open to Liberal Arts students who have had psychology, and who elect history of education.

Department of English

PROFESSORS FREEMAN AND DEMING

English 1 and 2 may not be counted toward a major in this department.

English 1. College Rhetoric (Fall and Spring) 3 Hrs.
Exposition and Argumentation. Daily themes.

English 2. College Rhetoric (Winter and Summer) 3 Hrs.
Description and narration. Daily themes. Prerequisites: English 1.

English 3. Argumentation (Fall) 3 Hrs.
A detailed study of the principles of argumentation; practice in brief making and in debating. Prerequisites: English 1 and 2.

English 23. Argumentation (Winter) 3 Hrs.
A continuation of English 3. Prerequisite: English 3.

English 4. The Short Story (Winter) 2 Hrs.
A study of the technique of the short-story. Practice in the writing of the short-story. Given upon sufficient demand.

English 24. The Short Story (Spring) 2 Hrs.
A continuation of English 4. Given upon sufficient demand.

English 5. Expository Writing (Fall) 2 Hrs.
Prerequisites: English 1 and 2.

English 25. Expository Writing (Winter) 2 Hrs.
A continuation of English 5. Prerequisite: English 5.

English 6. Survey of English Literature (Fall) 3 Hrs.
Prerequisites: English 1 and 2.

English 7. Survey of English Literature (Winter) 3 Hrs.
Prerequisite: English 6.

English 8. Poetics I (Winter) 2 Hrs.
Prerequisites: English 1, 2, 6 and 7.

English 9. Poetics II (Spring) 2 Hrs.
Prerequisite: English 8.

English 10. Shakespeare (Winter) 3 Hrs
Histories. Given upon sufficient demand. Prerequisites: English 1, 2, and 7.

English 11. Shakespeare (Spring) **3 Hrs.**

Tragedies. Prerequisites: English 1, 2 and 7.

English 12. Shakespeare (Summer) **3 Hrs.**

Comedies. Prerequisites: English 1, 2 and 7.

English 13. Milton (Summer) **3 Hrs.**

The poetry of Milton is read and studied. Prerequisites: English 1, 2, 7 and 8. (1924).

English 14. Nineteenth Century Poetry (Fall) **3 Hrs.**

A survey of Wadsworth, Scott, Byron, Keats, Shelly, Morris, Swinburne, and Rossetti.

English 15. Nineteenth Century Poetry (Winter) **3 Hrs.**

A study of the poetry of Tennyson.

English 16. Nineteenth Century Poetry (Spring) **3 Hrs.**

A study of Browning.

English 17. Nineteenth Century Essayists (Fall) **3 Hrs.**

Prerequisites: English 7 and 8. Given upon sufficient demand.

English 18. Nineteenth Century Essayists (Winter) **3 Hrs.**

Prerequisites: English 7 and 8. Given upon sufficient demand.

English 19. The English Novel (Summer) **3 Hrs.**

The development of the novel and its place in English Literature. Study and criticism. Prerequisites: English 7 and 8.

English 20. Literary Criticism (Spring) **3 Hrs.**

A study of the principles of literary criticism as applied to the various forms of literary expression. Open only to Seniors. (1924).

English 21. American Poetry (Spring) **3 Hrs.**

English 22. American Prose (Summer) **3 Hrs.**

Department of Greek

PROFESSOR SCHOONOVER

I. PREPARATORY COURSES

Greek 1.	**White's First Greek Book**	**5 Hrs.**
Greek 2.	**White's First Greek Book**	**5 Hrs.**
Greek 3.	**White's First Greek Book**	**5 Hrs.**
Greek. 4.	**Xenophon's Anabasis**	**5 Hrs.**
Greek 5.	**Xenophon's Anabasis**	**5 Hrs.**

II. ADVANCED COURSES

Greek 6.	**Epic Poetry—Homer's Iliad**	**5 Hrs.**
Greek 7.	**Epic Poetry—Homer's Iliad**	**5 Hrs.**

Greek 13. Sacred Greek—One of the Gospels. **5 Hrs.**

The work mentioned in courses 4-13 inclusive, is pursued one quarter. A literary study of the period is a part of each course.

Department of History

PROFESSOR NISWANDER

History 1, 2 and 3 may not be counted toward a major in this department.

History 1. Western Europe (Fall) **3 Hrs.**

History 2. Western Europe (Winter) **3 Hrs.**

History 3. Western Europe (Spring) **3 Hrs.**

A comprehensive survey of the history from the barbarian invasions to the present time. Both as to content and methods of study, the work is introductory. History I. will be offered in Summer quarter of 1923.

History 4. English History (Fall) **3 Hrs.**

History 5. English History (Winter) **3 Hrs.**

History 6. English History (Spring) **3 Hrs.**

An introductory study of English History from the earliest times to the present; the object being to gain a general knowledge of the subject, or for those specializing in American History or English Literature. It is also recommended for secondary teachers. (1923-24).

History 7. Renaissance and Reformation (Fall) **2 Hrs.**

History 8. Renaissance and Reformation (Winter) **2 Hrs.**

History 9. Renaissance and Reformation (Spring) **2 Hrs.**

This course deals with the development of civilization in Italy, Germany, and England in the period from Dante to Luther; the causes, nature and results of the Protestant revolt and the Catholic reformation. The object is to see as clearly as possible the relation of these movements to the present-day civilization. Special study is made of the dominant personalities of the period and the political, economic and social, as well as the strictly religious causes of the reformation. Prerequisites: History 1, 2 and 3, or equivalent. (1923-24).

History 10. French Revolution (Fall) **3 Hrs.**

History 11. Europe Since 1815 (Winter) **3 Hrs.**

History 12. Europe Since 1815 (Spring) **3 Hrs.**

As detailed a study as time will permit of the Old Regime; the causes, progress and permanent results of the Revolution; the rise of the Napoleonic empire and institution; the public and private career of the great conqueror and especially the growth of democratic institutions in the nineteenth century. Prerequisites: History 1, 2, 3, or equivalent.

History 13. American History (Fall) 3 Hrs.

History 14. American History (Winter) 3 Hrs.

History 15. American History (Spring) 3 Hrs.

A general study of the history of the United States from the discovery of America to the present time. Political, constitutional and economic phases will receive chief attention.

History 16. Recent American History (Fall) 3 Hrs.

History 17. Recent American History (Winter) 3 Hrs.

History 18. Recent American History (Spring) 3 Hrs.

In this course a detailed study of the history of the United States since 1870 is made. The work is intended for those students who expect to teach history, or those majoring in the Social Sciences. Prerequisites: Course 1, 2, 3, 13, 14, 15.

History 19. The Teaching of History 2 Hrs.

Lectures and reading upon methods of teaching history in the secondary school, examination of text-books, followed by practice work in the preparation of lesson for teaching, and the conduct of recitation. This course should be taken by all who desire to be recommended for teaching positions in this subject. This course will be offered in the Spring and Summer.

Department of Latin

PROFESSOR SCHOONOVER

It is the aim of this department to utilize as fully as possible the efficiency of Latin as an instrument of education and a means of culture. The student's effort is directed toward an appreciation of Roman writings from a literary viewpoint and as exhibiting the genius of the age in which they were written.

Latin 5. Cicero-De Senectute et Amicitia (Fall) 5 Hrs.

Latin 6. Horace—Odes and Epodes (Winter) 5 Hrs.

Latin 7. Livy—Selections from Books XX. and XXII. (Spring) 5 Hrs.

Courses 5, 6 and 7 are open to students who have presented four units of Latin for College entrance.

Latin 8. Virgil—Eclogues and Bucolics 3 Hrs.

Latin 11. Private Life of the Romans 2 Hrs.

Text-books for courses 12, 13 and 14; McKail's Latin Literature and the Oxford Book of Verse.

Latin 15. Teacher's Training Course (Summer) 2 Hrs.

Lectures and discussions on methods of teaching paradigms, translation, vocabulary and composition. Portions of the authors commonly studied in secondary schools are read, in class, to illustrate the discussions. Open only to seniors whose major work is in the Latin department.

Latin 16. Advanced Composition 2 Hrs.

Department of Mathematics

PROFESSORS BECKWITH AND FAIRCHILD

This department offers courses primarily (1) as a part of a liberal education, (2) as requirements for engineering students, and (3) for prospective graduate students in mathematics and physics. In all courses, the theory is developed, followed by the application to exercises and practical problems where possible.

Those who take any mathematics are advised to complete courses 7, 8 and 9. Those who major in mathematics and prospective graduate students in mathematics, should complete courses 10, 12, 13 and 14. Students in applied mathematics should follow course 9 by courses 10, 12 and 13.

Outline of courses:

Mathematics 1. College Algebra 5 Hrs.

Topics: Rational Fractions; Binomial Theorem; Evolution; Irrational Functions; Quadratic Equations; Equations in Quadratic Form; Simultaneous Quadratic Equations; Ratio, Proportion and Variation; Arithmetical, Geometrical and Harmonical Progressions. Prerequisites: College Entrance Units, including 1½ units High School Algebra. Each Quarter.

Mathematics 2. College Algebra 4 Hrs.

Topics: Imaginary and Complex Numbers; Logarithms; Mathematical Induction; Theory of Equations; Determinants. Prerequisite: 1. Winter, Spring and Summer Quarters.

Mathematics 3. Trigonometry 5 Hrs.

Topics: Definitions; Trigonometric Functions and Equations; Solution of Plane Triangles; Certain Applications. Prerequisite: College Entrance Units, including High School Algebra, 1½ units and Plane and Solid Geometry, 1½ units. Fall, Winter, and Summer Quarters.

Mathematics 4. Trigonometry (Spring) 3 Hrs.

Topics: Complex Numbers; DeMoivre's Theorem; Trigonometric Series; Hyperbolic Functions; Spherical Trigonome-with Applications to Geodesy and Astronomy. Prerequisite: 3.

Mathematics 5. Analytic Geometry 4 Hrs.

Topics: Loci and their Equations; the Straight Line; the Circle; Graphs in Rectangular and Polar Co-ordinates; Transformations; Conic Sections. Prerequisites: 1, 3. Winter, Spring and Summer Quarters.

Mathematics 6. Analytic Geometry **4 Hrs.**

Topics: Conic Sections; Tangents; Parametric Equations and Loci; Space Co-ordinates and Loci; the Plane; Special and Quadric Surface; Empirical Equations. Prerequisites: 5. Fall, Spring and Summer Quarters.

Mathematics 7. Calculus (Differential) **4 Hrs.**

Topics: Functional Notation; Total and Partial Differentiation, with Applications; Successive Differentiation; Differentials; Implicit and Explicit Functions; Convergence and Divergence of Infinite Series; Expansion of Functions; Indeterminate Forms; Maxima and Minima of Functions of one Variable. Prerequisite: 5. Fall, Spring, and Summer Quarters.

Mathematics 8. Calculus (Differential and Integral) **4 Hrs.**

Topics: Change of Variable; Maxima and Minima of Functions of two or more Variables; Direction of Curves; Tangents and Normals; Tangent Plane and Normal Line; Direction of Curvature; Curvature and Radius of Curvature; the Osculating Circle; Envelopes; Methods of Integration by Type of Integrand; Applications of Simple Integration. Prerequisite: 6, 7. Fall and Winter Quarters.

Mathematics 9. Calculus (Integral) (Winter and Spring) **4 Hrs.**

Topics: Integration by Parts; Reduction Formulae; Integration by Substitution; Integration as a Summation; Applications; Successive Integration and the Application to Surfaces, Volumes, Moments of Inertia, Centers of Gravity, Fluid Pressure and Attraction at a Point; Hyperbolic Functions; the Cycloid. Prerequisite: 8.

Mathematics 10. Differential and Integral Calculus (Advanced) (Fall) **4 Hrs.**

Topics: Implicit Functions and their Differentiation; Application to Curves and Surfaces; Taylor's Series with elementary Applications to Curves, Indeterminate Forms, and Maxima and Minima; Extension of Taylor's Theorem to Functions of more than one Variable; Singular Points of plane Curves and Surfaces; Definite Integral and the Geometrical Concept; Green's Theorem; Stokes' Theorem; Line and Surface Integrals; Multiple Integrals; Integration of Total Differentials. Prerequisite: 9.

[Goursat-Hedrick: Mathematical Analysis (Vol. I) will be referred to in this course.]

Mathematics 11. Astronomy (Descriptive) (Fall) **3 Hrs.**

Topics: Reference Points and Lines; the Constellations; the Earth and its Motion; Time; the Moon; the Solar System; the Planets; Comets and Meteors; the Sun; the Stars and Nebulae, (Eight hours of Observations with Notes are required). Prerequisite: 4.

Mathematics 12. Differential Equations (Winter) 3 Hrs.

Topics: Equations of the first Order and Degree; Equations of the first Order, but not of the first Degree; Equations of the second Order; Linear Equations with constant Coefficients. Prerequisite: 9.

Mathematics 13. Theoretical Mechanics (Spring) 5 Hrs.

Topics: Center of Gravity; Moment of Areas and Mass; Moment of Inertia; Ellipse of Inertia; Kinematics of a Point; Kinetics of a Material Particle; Work; Energy; Impulse; the Simple Pendulum. Prerequisite: 9.

Mathematics 14. Theory of Functions of a Complex Variable (Elementary Course) (Spring) 4 Hrs

Topics: The Rational Functions and Stereographic Projection. Automorphic Functions; Continuity of a Rational Function of a Complex Variable; Derivative of a Rational Function of a Complex Variable; Conformal Representation; the Integral of a regular Function of a Complex Variable. Prerequisite: 10.

Mathematics 15. History of Mathematics (Summer) 3 Hrs.

A systematic survey of the Historical Development of Mathematics.

Department of Modern Languages

PROFESSOR DAVIS AND ASSISTANTS

Romanic Languages and Literature

The study of a foreign language should enable a person to use it conversationally; to read it for liteary and scientific purposes; and to write it for business correspondence. The courses in this department are designed to meet both cultural and practical needs. The advanced courses afford opportunity for students to major in languages. If a student expects to do university graduate work, he should have a working knowledge of two modern languages, preferably French and German.

FRENCH

Elementary Courses

French 1.	**Elementary French**	**(Fall)**	**5 Hrs.**
French 2.	**Elementary French**	**(Winter)**	**5 Hrs.**
French 3.	**Intermediate French**	**(Spring)**	**5 Hrs.**
French 4.	**Intermediate French**	**(Summer)**	**5 Hrs.**

These are beginning courses and are designed for students who do not present entrance credits in French but desire a working knowledge of the language. These four courses or their equivalent (two high school units) prepare the student for the courses in college French, and comprise the essentials of grammar, the acquisition of a working vocabulary, verbs and idioms, and practice in speaking and reading the language. Especial stress is laid on the mastery of a good pronunciation. No credit toward graduation is given for elementary language courses until completed.

Collegiate French

French 5. Introduction to French Literature (Fall) 3 Hrs.

French 6. Survey of the 18th and 19th centuries (Winter) 3 Hrs.

French 7. Modern Tendencies in French Literature (Spring) 3 Hrs.

French 8. Masterpieces of Romanic Literature (Summer) 3 Hrs.

A survey of French literature from the origins to the present day. French history is required as parallel reading, with selections from authors of the various periods. French 5, 6 and 7 treat of the literature of the Renaissance and Classical periods in relation to modern forms, and influence on English literature; of the philosophic age, the romantic and realistic movements, and the democratic tendencies of nineteenth century literature. Prerequisite, two years of high school or four quarters of college French. French 8 is a critical study of the great authors of southern Europe and of their influence on European literature. Much reading is required in translations from Dante, Petrarch, Boccaccio, Ariosto, Tasso; Cervantes and the great dramatists of Spain; Rabelais, Montaigne, Moliere, Hugo, etc. of France. No knowledge of the Romanic languages is needed for French 8. Given in the summer quarter only.

French 9. Conversation, Composition and Phonetics (Fall) 2 Hrs.

French 10. The French Novel (Winter) 2 Hrs.

French 11. Contemporary French Writers (Spring) 2 Hrs.

French 12. French Poetry (Summer) 2 Hrs.

Colomba forms the basis for practice in oral and written French. Idioms from the text learned, grammar reviewed, laboratory practice in phonetics; phonograph records by artists as models, weekly themes in French. Prerequisite, two years of French. French 10 and 11 consist of lectures, collateral reading and reports; French 12 is an introduction to lyric poetry from texts and music. (Commercial composition for those who desire it.)

French 13, 14. The French Drama (Winter and Spring) 3 Hrs.

This course alternates with French 10, 11. Studies in the works of Corneille, Racine and Moliere with lectures and readings from the tragedy and comedy of the 18th century, and plays by later writers chosen mainly with a view to showing dramatic treatment of social questions.

French 15, 16, 17. The Development of Social Ideals in French Literature 2 Hrs.

This course alternates with French 5, 6 and 7. The following types will be studied: "le chevalier" of the Middle Ages (la Chanson de Roland); "l'escolier" (Francois Villon); "l'homme de la Renaissance" (Montaigne, Rabelais); "l'honnete homme" of the 17th century (Moliere, La Fontaine, Pascal); "le Philosophe" of the 18th century (Voltaire, Rousseau); "le romantique" of the 19th century (Lamartine, Musset); "l'intellectuel" (Renan, Anatole France).

French 18. Scientific French (Fall) 2 Hrs.

Intended for students who desire to read readily scientific French texts and periodicals. The stress will be placed on acquiring the ability to get the meaning of the printed page rather than on language training. Open to students who have had two years of French.

French 19. Teachers' Course (Summer) 2 Hrs.

A course for prospective teachers of French and Spanish. Required of majors and all who seek the recommendation of the department as teachers of these subjects in the high schools. Methods, selection of text-books, scientific methods of teaching pronunciation, grammar, and composition. Prerequisite, three years of French. Practice teaching credit in Education. Recitations, reports and private conferences.

SPANISH

Elementary Courses

Spanish 1. Elementary Spanish (Fall) 5 Hrs.

Spanish 2. Elementary Spanish (Winter) 5 Hrs.

Spanish 3. Intermediate Spanish (Spring) 5 Hrs.

Spanish 4. Intermediate Spanish (Winter) 5 Hrs.

These are classes for beginners similar to Elementary and Intermediate French, and must precede all other courses in Spanish. Castilian pronunciation, grammar, memory and oral drill, with easy graded reading.

Collegiate Spanish

Spanish 5. Survey of Spanish Literature (Fall) 5 Hrs.

Spanish 6. Classical Writers (Winter) 5 Hrs.

Spanish 7. Modern Writers (Spring) 5 Hrs.

The history of Spain and Spanish literature from the origins to the present time, with assigned readings from literature of the various periods; conversation based on the texts read, themes in Spanish.

Spanish 8. Literary Relations of Spain with France and England. (See French 8.) (Summer) 3 Hrs.

Spanish 9. Commercial Spanish. 2 Hrs.

To be taken concurrently with Spanish 5, 6 and 7, and intended to give the student a working knowledge of present-day conditions, opportunities, business forms and methods in the principal Hispanic countries. The class-work will be supplemented by collateral reading of Spanish-American literature, and by the use of correspondence representing actual business transactions.

Spanish 10. Survey of the Spanish Drama (Fall) 3 Hrs.

Spanish 11. Modern Spanish Drama (Winter) 3 Hrs.

Spanish 12. Spanish Poetry (Spring) 3 Hrs.

This course alternates with Spanish 5, 6 and 7, and is an intensive study of a limited number of works of representative dramatists and poets, with lectures, collateral reading and reports.

GERMANIC LANGUAGE AND LITERATURE

German 1. Elementary German (Fall) 5 Hrs.

German 2. Elementary German (Winter) 5 Hrs.

German 3. Intermediate German (Spring) 5 Hrs.

German 4. Intermediate German (Summer) 5 Hrs.

Pronunciation, essentials of grammar, composition, verb drill, easy graded reading preparatory to reading science from texts and periodicals.

German 5. Survey of German Literature (Fall) 3 Hrs.

German 6. Modern Prose and Poetry (Winter) 3 Hrs.

German 7. German Drama (Spring) 3 Hrs.

German 8. Interrelations with Eng. Lit. (Summer) 3 Hrs.

An outline of German Literature from the beginnings to the present time. Selections will be read from different periods showing the recent trend of literature and the influence of German literature on other lands. The summer course will be given in translations and no knowledge of German is required. Prerequisite for German 5, 6 and 7 is two years of German.

German 9. Scientific German (the year) 2 Hrs.

A course to enable the student to read German technical literature. This is preceded by drill on word formation, word compounds, sentence structure. May be taken concurrently with 5, 6 and 7.

Department of Philosophy and Religious Education

PROFESSOR BURRIS

PHILOSOPHY

Philosophy 1. The Spiritual in Life (Fall) 3 Hrs.

An examination of the nature of progress and civilization, giving a definition of progress; a tracing of the tendencies of the progress seen in the various sciences and in the different movements of practical life; and a determination of the general direction in which all progress is moving.

Philosophy 2. The Destiny of Man (Winter) 3 Hrs.

An examination of the directions of progress and a determination of what the outcome of evolution or progress has been thus far, and the probable outcome of all endeavor.

Philosophy 3. The Philosophy of Prayer (Spring) 3 Hrs.

An examination of the literature on prayer, and a research into the nature, principles and meaning of prayer together with the great secrets of power and insight.

Philosophy 4. Ethics (Summer) 3 Hrs.

A study of the meaning of the moral; its origin, nature, development and application to the practical affairs of life.

Philosophy 5. History of Philosophy (Fall) 3 Hrs.

Philosophy 6. History of Philosophy (Winter) 3 Hrs.

Philosophy 7. History of Philosophy (Spring) 3 Hrs.

These three courses in philosophy trace the movements of philosophical thought up to and including (a) the time of Christ, (b) the close of the nineteenth century, and (c) recent and present philosophy. The courses must be taken in sequence.

Philosophy 8. General History of Philosophy (Summer) 3 Hrs.

In this course a general view of the whole field of philosophical thought is given. Prerequisites: Philosophy 5, 6 and 7.

Philosophy 9. Logic (Winter) 3 Hrs.

Elements from text. Practical training in detecting the more common fallacies and in illustrating the condition of proof and laws of evidence. Open to seniors.

Philosophy 10. The New Civilization (Spring) 5 Hrs.

Prerequisites: Philosophy 1, 2, 5, 6, 7 and 8.

RELIGIOUS EDCUATION

Bible 1. Old Testament (Fall) 3 Hrs.

Bible 2. Old Testament (Winter) 3 Hrs.

A study of the religious development of the Hebrews, emphasizing both the religious and social contributions of the Hebrew people to civilization up to the time of the New Testament.

Bible 3. Life of Christ (Spring) 3 Hrs.

An examination of the historical conditions at and before the time of Christ and Christ's religious and social messages. The aim of the course is to enable the student to construct his own Life of Christ.

Bible 4. Christianity in the Apostolic Age (Summer) 3 Hrs.

The development of primitive Christianity from Christ's ascension to the close of the Apostolic Era based largely on the book of Acts, but the Epistles are also used in so far as they reflect the conditions of life and thought during the period. Prerequisite: Bible 3.

Christian Religion 1. Church History (Fall) 3 Hrs.

A survey of the origin, growth, spread and influence of Christianity on the nations of the world.

Christian Religion 2. Comparative Religions (Winter) 3 Hrs.

The Christian religion and all other so-called religions are studied and compared as to their value and contributions.

Christian Religion 3. Foreign Missions (Spring) 3 Hrs.

An examination of foreign conditions and needs.

Christian Religion 4. Home Missions (Summer) 3 Hrs.

A study of home conditions and needs.

Christian Religion 5. Evidences of Christianity (Fall) 3 Hrs.

A study of the grounds and great principles of Christian belief and tests as to whether or not it is the world religion.

Department of Physics

PROFESSOR BERGER AND ASSISTANTS

Physics 8. The Teaching of Physics (Summer) 5 Hrs.

The course is based on Mann's, The Teaching of Physics. The work consists of lectures, reviews of numerous High School texts on Physics, and actual preparation, assignment, and teaching of assigned topics in High School Physics. Also, the student will be given information as to the best method of fitting up a laboratory.

Physics 9. General Physics (Fall) 4 Hrs.

Physics 10. General Physics (Winter) 4 Hrs.

Physics 11. General Physics (Spring) **4 Hrs.**

A year's work in collegiate physics. Not open to Engineering students. Prerequisites: Preparatory Physics and Physics 12. Class, 3 hours; laboratory, 2 hours.

No one will be recommended by the Department for Positions as Physics teachers who has not completed courses 8, 9, 10, and 11.

Physics 12. Freshman Physics (Spring) **2 Hrs.**

This is a lecture and problem course intended to bridge the gap between High School Physics and Sophomore College Physics. The mathematics necesary for courses 9, 10 and 11 will be taken up in this course. Prerequisite: Preparatory Physics. Class, four hours.

Department of Political Science and Economics

PROFESSOR BINKLEY

POLITICAL SCIENCE

Political Science 1. Government and Politics (Fall) **3 Hrs.**

Political Science 2. Government and Politics (Winter) **3 Hrs.**

Political Science 3. Government and Politics (Spring) **3 Hrs.**

Begins with a brief survey of the origin of constitutional government in America followed by a somewhat detailed examination of our national and state governments; also a brief study of municipal and other local governments. Due emphasis is placed upon the organization and activity of political parties.

Political Science 4. Municipal Government (Fall) **3 Hrs.**

Political Science 5. Municipal Government (Winter) **3 Hrs.**

Political Science 6. Municipal Government (Spring) **3 Hrs.**

A comparative and historical study of the activities, functions and problems of European and American cities. Special emphasis is placed on recent tendencies toward change in the form of city government and on meeting the new problems arising therefrom. In studying the government of European cities special consideration is given to such features as may be used to advantage in the cities of the United States. The Spring Quarter is devoted to a thorough study of municipal functions and administration. Prerequisite: Political Science 1, 2 and 3.

Political Science 7. Comparative Government (Fall) **2 Hrs.**

Political Science 8. Comparative Government (Winter) **2 Hrs.**

Political Science 9. Comparative Government (Spring) 2 Hrs.

A study of the problems of constitutional and popular government based upon a comparison of the modern constitutions of European, Asiatic and American States and with a view to testing our own constitutional principles and practice by such comparison. Prerequisites: Political Science 1, 2 and 3.

ECONOMICS

Economics 1. General Economics (Fall) 3 Hrs.

Economics 2. General Economics (Winter) 3 Hrs.

Economics 3. General Economics (Spring) 3 Hrs.

General introduction to a study of Economic questions. The theories underlying the various problems of economics are first dealt with, followed by a brief survey of the principles of foreign exchange, money, currency, banking, labor problems and other topics relating to the general subject.

Economics 4. Labor Problems (Fall) 2 Hrs.

Economics 5. Labor Problems (Winter) 2 Hrs.

Economics 6. Labor Problems (Spring) 2 Hrs.

A brief history of the problems and legislation connected with the labor question, followed by a more detailed study of the present day questions and the attempts being made to meet the problems which have arisen. Open to those who have taken, or are taking, Economics 1, 2, 3.

Economics 7. Money and Banking (Fall) 2 Hrs.

Economics 8. Money and Banking (Winter) 2 Hrs.

Economics 9. Money and Banking (Spring) 2 Hrs.

A study of money, its historical development, coinage, legal tender, the gold standard, index numbers and devices for stabilizing the dollar; credit; banking functions and operation; clearing house system; historical development of American and foreign banking systems and a special study of our national banks under the Reserve System. Prerequisites: Economics 1, 2, 3. (1923-24).

Economics 10. Economic History (Fall) 3 Hrs.

Economics 11. Economic History (Winter) 3 Hrs.

Economics 12. Economic History (Spring) 3 Hrs.

A study of the economic development of modern Europe with special reference to England, France and Germany; also a survey of the economic development of the United States. Primarily for pre-commerce students but open to all others.

Department of Psychology and Sociology

PROFESSOR GRAY

PSYCHOLOGY

Psychology 1. General Psychology (Fall) **3 Hrs.**

Psychology 2. General Psychology (Winter) **3 Hrs.**

These courses take up the general study of mental processes. They aim to train the student to observe the processes of his own experience and those of others, and to appreciate critically whatever he may read along psychological lines. It is introductory to all work in philosophy and pedagogy and is an important part of equipment for historical and literary interpretation. Prerequisite: One year of college work. Psychology I, Summer 1923.

Psychology 3. Psychology of Religion (Spring) **3 Hrs.**

This is a study of a special subject based on a thorough elementary course in psychology. Three main topics will be treated: (1) The beginning of religion in the race. Special topics, primitive customs, ritual, taboo, sacrifice, prayer, myth, magic; (2) the beginning of religion in the individual, involving a study in adolesence, the types of religious experience, such as conversion and gradual growth; revivalism in the light of the psychology of suggestion compared with the educational process; (3) analysis of mature religious consciousness with reference to the nature and place of religious emotion and the character and function of religious ideas and concepts. Prerequisites: Psychology 1 and 2. (1924).

Psychology 4. Social Psychology (Spring) **3 Hrs.**

The basis of the theory of social consciousness is derived from recent studies in gesture, language and instinct. Questions proper to this science are: (1) the genesis and development of consciousness in the family, gang, school, club, voluntary association and nation; (2) the social character of instinct, feeling, perception and thinking; (3) the interpretation of the crowd, fashion and custom; (4) political parties, the newspaper and the public will; (5) democracy and leadership. This course alternates with Psychology 3. Prerequisites: Psychology 1 and 2.

Psychology 5. Educational Psychology (Fall and Summer) **3 Hrs.**

This course treats of the learning process and the methods of increasing its efficiency. Such topics as instincts and habits, economy in memory and association, attention, interest and the higher thought process, will be discussed. Prerequisites: Psychology 1 and 2 or Educational Psychology 1 and 2,

Psychology 6. Psychology of High School Subjects (Winter) 3 Hrs.

A study of the adolescent mind together with a comparative analysis of the theoretical and practical aspects of the subjects taught in the high schools. Prerequisite: Educational Psychology.

Psychology 7. Psychology of High School Subjects (Spring) 3 Hrs.

Continuation of Course 6. Summer 1923.

SOCIOLOGY

Sociology 1. General Sociology (Fall) 3 Hrs.

Sociology 2. General Sociology (Winter) 3 Hrs.

Sociology 3. General Sociology (Spring) 3 Hrs.

A study of the phenomena of social life; the basis of society in nature; the social person; social institutions; social order and process. The course is designed to give an introduction to theoretical and practical sociology, and to systematize the reading, observation. and thinking of the student. Courses 1-2 are prerequisite to other courses in sociology. Prerequisite: Psychology 1 and 2.

Sociology 4. Rural Sociology (Summer) 3 Hrs.

This course presents those principles of social theory necessary to the study of rural social problems. And includes a careful presentation of the influence of physical environment upon rural progress. Social problems in the rural community are considered in their relations to the economic conditions of the farmer; the land question; the rural church; the rural school; means of communication, etc. These are correlated with like conditions in urban social life so that the student will have a broad view of our social conditions. Prerequisite: Psychology 1 and 2.

Sociology 5. Educational Sociology (Spring) 3 Hrs.

A study of the application of the scientific spirit, methods and principles of sociology to education. The social basis of the school in its relation to the home, community, church and state. The social value of educational surveys and vocational courses from the utilitarian viewpoint. Prerequisites: Sociology 1 and 2.

Electives from other Departments

In addition to the courses described above, candidates for degrees are allowed to present credits from the Departments of Law, Expression, or Engineering as follows;

Law. Constitutional Law, 10 hours.

Oratory. 10 hours.

Mechanical Drawing I. 4 hours.

Mechanical Drawing II. 2 hours.

Mechanical Drawing III. 2 hours.

Public Speaking, 3 hours.

COLLEGE OF EDUCATION

DR. JOHN DAVISON, DEAN

THE AIM

The College of Education of Ohio Northern University is devoted entirely to the instruction and training of teachers. The work of the College has been carefully and thoroughly organized and fully meets all the requirements of the State Department of Public Instruction and the standards maintained in the best colleges of the country. All professors and instructors have had successful public school experience as well as special preparation for their work and their ideal of service is a sympathetic co-operation with all students in helping to solve their immediate problems. Such a personal experience with strong educational leaders is the best and most valuable part of any course of instruction.

This college aims to give a sound and thorough knowledge of all the branches studied; to develop correct methods of investigation and research; to aid its students in forming clear conceptions of the dignity and importance of the teacher's work; to trace in the history of education the origin and development of modern principles of teaching; to present, in theory and practice, approved and rational methods of instruction; to create and maintain high professional standards among present and prospective teachers; and to offer such courses for the professional training of teachers as will broaden their horizon and advance them to higher planes of usefulness, ability and service.

The Ohio Northern Univeristy is on the "Accredited List" of the State Department of Public Instruction. Those who complete the Elementary and Secondary courses described in the following pages will be granted "provisional certificates" with out further examination, and, after twenty-four months of successful teaching experience, the certificates may be made permanent by the State Board of Examiners.

Entrance Requirements

Only men and women of good moral character are admited as students in the College of Education of the Ohio Northern University. The academic requirements for entrance to courses leading to State Certificates in Ohio as fixed by the State Department of Public Instruction for all the Normal Colleges of the state, require graduation from a first grade High School, or its equivalent; and the necessary fifteen units will be accepted from first grade High Schools, Academies or Preparatory Schools. Persons desiring to pursue courses of study leading to diplomas or degrees must submit their High School or Preparatory credits to the Registrar before or at the time of entering the University.

Professional Training

For the sake of insuring the normal development of children and the conservation of the teacher's health, professional training as well as sound scholarship are now demanded of all who would secure positions in the teaching service. But whatever may be the legal requirements in Ohio or any other state, preference is always given by those in charge of the administration of Public Education in any community to the teachers who have made thorough preparation for their chosen work. There is a growing public sentiment in favor of eliminating the untrained, and this will necessarily result in better salaries and more favorable recognition for those who are worthy. Abundant opportunities are always open to teachers of superior qualification and recognized merit.

COURSES OF STUDY

"Four Year" Schedule for the Training of High School Teachers

Degree: Bachelor of Science in Education

FIRST YEAR		SECOND YEAR		THIRD YEAR	
English 1.	3	English 4.	3	General Methods	3
History of Education 1.	3	General Psychology 1.	3	Sociology 1.	3
Biology 1.	3	Principles of Secondary Education 1.	3	School Administration 1.	2
*Elective	6	*Elective	6	Teaching or Elective	3
				*Elective	4 or 5
English 2.	3	English 5.	3	Special Methods	3
History of Education 2.	3	General Psychology 2.	3	Sociology 2.	3
Biology 2.	3	Principles of Secondary Education 2.	3	School Administration 2.	2
Elective	6	Elective	6	Teaching or Elective	3
				Elective	4 or 5
English 3.	3	English 6.	3	Educational Hygiene	5
History of Education 3.	3	Educational Psychology 4.	3	Educational Sociology	3
Biology 3.	3	Principles of Secondary Education 3.	3	School Administration 3.	2
Elective	6	Elective	6	Teaching or Elective	3
				Elective	2
Drawing	3	Educational Psychology 5.	3	Educational Psychology 6.	3
Bible	3	School Law	2	Ethics	5
Elective	9	Observation	3	Elective	5
		Elective	5		

*Electives must be selected with reference to the subject or subjects which the student is preparing to teach. At least nine quarters should be devoted to the major subject, and six quarters to the minor subject.

This course may be completed in four college years of three quarters each, or in three years of four quarters each. In either case it represents one hundrd and forty-four weeks of college work. Graduation from a first grade high school, or equivalent, is the requirement for entrance.

Two Year Schedule for the Training of Elementary School Teachers

Diploma: Graduate in Pedagogy

FIRST YEAR		SECOND YEAR	
First Quarter		**First Quarter**	
Educational Psychology	2	Principles of Teaching	3
Geography and Methods	5	General Methods	2
Public School Drawing	3	History of Education	3
Rural Education	3	School Organization	2
		Observation or Practice Teaching	3
		Elective	2
Second Quarter		**Second Quarter**	
Educational Psychology	2	Principles of Teaching	3
Arithmetic and Methods	5	General Methods	2
Grammar and Methods	5	History of Education	3
Reading and Methods	5	School Organization	2
		Observation or Practice Teaching	3
		Elective	2
Third Quarter		**Third Quarter**	
Educational Psychology	3	General Methods	2
History and Methods	5	History or Education	3
Agriculture and Methods	5	School Organization	2
Educational Hygiene	5	Observation or Practice Teaching	3
		Elective	5

As will be noted from the above, this course may be completed in six quarters of twelve weeks each. The requirement for entrance is graduation from a first grade high school, or equivalent.

All who have had two or more years of high school work are eligible to admission to the Summer School classes. All teachers in service are also admitted, by special direction of the State Department of Education.

DESCRIPTION OF COURSES

Educational Psychology

DEAN DAVISON, PROFESSORS GRAY AND WILSON

Educational Psychology 1. Human Behavior (Fall) 2 Hrs.

Educational Psychology 2. Psychology of Common Branches (Winter) 2 Hrs.

Educational Psychology 3. Paidology (Spring) 3 Hrs.

These are elementary courses, open to all Freshmen, and are designed to lay a foundation for all succeeding educational work. While the work of the three quarters is sequential and should be taken as outlined; it is offered in three units, any one of which may be taken separately if the student shall read the preceding texts and references.

Educational Psychology 4. The Learning Process (Fall) 3 Hrs.

Educational Psychology 5. Psychology of H. School Subjects I. (Winter) 3 Hrs.

Educational Psychology 6. Psychology of H. School Subjects II. (Spring and Summer) 3 Hrs.

Courses 4, 5 and 6 are intended for high school teachers but are also open to students who have a working knowledge of psychological principles.

School Organization

DEAN DAVISON

School Organization 1. Class Room Management (Fall) 2 Hrs.

School Organization 2. School Government and Discipline (Winter) 2 Hrs.

School Organization 3. School Law and Course of Sudy (Spring) 2 Hrs.

Although the work is planned for three consecutive quarters, any one may be selected by special students prepared to take the work.

School Administration

DEAN DAVISON

School Administration 1. School Systems and Agencies (Fall) 2 Hrs.

Study of existing school systems and the relations of the various agencies at work; comparative school legislation, with attention to Ohio; school management, financial problems, buildings and furnishings.

School Administration 2. Secondary Education (Winter) 2 Hrs.

Special study of courses of study, selection of teachers, reports, grading and records.

School Administration 3. Vocational Education (Spring) 2 Hrs.

History of Education

DEAN DAVISON

History of Education 1. Before the Middle Ages (Fall) 3 Hrs.

History of Education 2. During the Middle Ages (Winter) 3 Hrs.

History of Education 3. Modern Times (Spring) 3 Hrs.

History of Education 1, 2 and 3 are required of Seniors in both courses in education, but the outside readings are adjusted to the special interests of both classes of students. Open to Liberal Arts students who have had Psychology.

Principles of Elementary Teaching

PROFESSOR WILSON

Principles of Teaching 1. The Educative Process (Fall) 3 Hrs.

Principles of Teaching 2. The Teaching Process (Winter) 3 Hrs.

Elementary. A study of the principles of teaching based on psychology. The work is centered about the recitation and school room practice.

Principles of Secondary Education

DEAN DAVISON

Principles of Education 1. Principles and Problems (Fall) 3 Hrs.

Principles of Education 2. Principles and Problems (Winter) 3 Hrs.

Principles of Education 3. Principles and Problems (Spring) 3 Hrs.

The principles of education founded upon psychology, biology and sociology are studied to final working basis. The dogmatical is not attempted, but a rational view-point towards present educational problems is emphasized. Open to Liberal Arts students who have had psychology, and who elect History of Education.

Methods of Teaching

DR. DAVISON AND PROFESSOR WILSON

Methods of Teaching 1. General (Elementary) (Fall) 2 Hrs.

Methods of Teaching 2. General (Elementary) (Winter) 2 Hrs.

Methods of Teaching 3. General (Elementary) (Spring) 2 Hrs.

A careful study of the value of method in the educative process, and the methods suitable to the different grades and how they should be modified.

Methods of Teaching 4. General (High School) (Fall) 3 Hrs.

This course is a study of a series of phases of the scientific methods of presenting high school subjects and checking on the results.

Methods of Teaching 5 Special. (Elementary) 5 Hrs.

The various elementary branches listed in the "Two Year" schedule are taken up with a view to gaining advanced academic knowledge and an acquaintance with the more improved methods of teaching them. Selected texts in both subject matter and methods are made the basis in each branch.

Methods of Teaching 6. Special (Secondary) (Winter) 3 Hrs.

Students taking this course will be divided into groups according to the subjects they are preparing to teach. Each student must prepare a thesis on the better methods of teachin in his chosen field. The material for this study will be based upon prescribed library readings, a practical study of the methods used by the instructors in the preparatory department, and local high school, and the counsel of the professor in charge.

Public School Drawing

PROFESSOR LONG

This is an elementary course based upon well established principles of expressing thought and action by symbols. No special talent is required to take this course, as the principles may be worked out mechanically. Required of all students wishing a diploma in Education. Given in Fall and Summer quarters. Three hours credit.

Public School Music

PROFESSOR KILLEEN

This course includes a thorough training in the fundamentals of music, frequent drill in sight singing, and careful provision for the teaching of music in all grades. Special attention is given to methods of instruction and the treatment of the child voice at all stages of development.

No extra charge for this special training in the music department. Fall or Summer quarters. Three hours credit.

Hygiene

DR. DAVISON AND PROFESSOR WILSON

Hygiene 1. Health and Sanitation (Spring) 5 Hrs.

This is a composite course comprising health work in the school including that of the teacher and pupils; a theoretical consideration of the intimate relation existing between mental and physical and moral growth. Prescribed readings, lectures, surveys. Open to all students in the School of Education who are prepared to carry the course.

Hygiene 2. Educational Hygiene (Winter) 5 Hrs.

This course is pursued by Seniors taking the training of High School teachers. It includes health sociology, rural school health administration, medical supervision, school sanitation, play and recreation, and the teaching of the hygiene.

The Observation of Teaching

Through the co-operation of the Ada Public Schools and the preparatory department of the University, this work is accessible to all. Only a limited number, however, can be accommodated at one time, and special arrangement must be made as early as possible. It is advantageous to take the work daily, and attend a conference conducted by a training teacher. Credit is based upon attendance at the class, the weekly conference, and the nature of the reports. Three credit hours a quarter.

Practice Teaching

The cadet teachers train for the elementary work in the public schools. Those planning for secondary work teach in the preparatory department. As in Observation, only a limited number can be accommodated at once, and special arrangement must be made through the Dean. All work must be done by lesson plans under the immediate direction of the regular teacher in charge, and supervised by a training teacher. Credit is given to those only who show evidence of efficiency. The work is regarded as laboratory study, and only one hour a day will be recognized. Credit, three hours a quarter.

Full information regarding all elective courses, as well as the courses in English, Biology, Bible, General Psychology, Ethics, Sociology, etc., will be found elsewhere in this catalog in the description of the courses given in the College of Liberal Arts.

The Summer Quarter

The work of the Summer School is carefully organized and meets all the requirements of the State Dept. of Education.

For the summer of 1923, the work will be arranged to accommodate, first ,those who wish to meet only the legal requirements; and, second, those who desire to complete a course leading to a diploma and state certificate. On the completion of the Elementary Teachers' Course of ninety-six term hours, "Certificates of Professional Instruction" are issued. Students desiring full collegiate credit must register at the beginning of the summer quarter and continue their work during the entire quarter.

Lectures by eminent educational leaders of the country are regular features of the Summer School, and are free to the students of the University of whatever department.

Besides the regular academic and collegiate instruction, classes are formed in all the subjects prescribed by the State Department of Education for professional training and also in Home Economics, Physical Education and Rural Education. Arrangements have also been made for two full courses in primary methods, including plays, games, and so forth.

For further particulars send for a Summer School Bulletin.

Ohio Northern Educational Society

The Ohio Northern Educational Association holds regular weekly meetings, at which addresses and lectures are given and papers on subjects of vital importance to every teacher are read and discussed. Membership in this society is open to all students of the College of Education.

Employment Bureau

This Bureau assists Ohio Northern students in securing teaching positions. In the past year many graduates and former students were brought into direct communication with school officers in search of superior teachers. A number of superintendents and principals owe their present positions to direct calls to this bureau. The demand for teachers of science, agriculture, physical training and manual training was in excess of the properly qualified candidates.

No charge is made for the services of this bureau, but only teachers of merit will be registered.

COLLEGE OF ENGINEERING

Carroll Russell Alden, Dean

ADMISSION

Fifteen units of high school work are required for admission. Distributed as follows: English, 3; Mathematics including solid geometry, 3; Physics, 1; Electives, 8; two to be chosen from the following list; English, Mathematics, Science, Language, History. Units will be accepted from first-grade high schools, academies or preparatory schools. The acceptance of work from schools of lower rank will be determined by the entrance committee. To those who cannot furnish certified credits, entrance examinations will be given the first day of each quarter. Those not desiring to earn a degree may enter any department and pursue the studies they choose, if on consultation, the head of the department is satisfied that they have sufficient preparation to pursue the work successfully. Such applicants are classified as special students. Upon completion of their work, a certificate, showing the course of study pursued and the amount of work covered, will be presented them.

The official form for "Certificate of Entrance," which may be had on application to the Entrance Examiner, should be used in all cases, in order to insure the presentation of necessary information.

Admission to Advanced Standing

A liberal policy is pursued in giving credit for work done in other colleges. Some credit also is given for practical experience in draughting and field work acquired previous to matriculation, upon receipt of a satisfactory statement from the employer, stating the nature of the work and length of service. Statements must include postoffice address as well as signature of employer.

Time to Enter

In view of the fact that each course is offered from two to four times a year and that numbers of classes are formed each quarter, students may enter at almost any time and find the work they desire. The best time to enter, however, is at the beginning of the quarter. See calendar.

Aim in Arrangement of Courses

The courses offered, recently revised to meet the demands of the reconstruction period, aim at laying a groundwork of sound theory and, at the same time, imparting such instruction in the usual professional practice as will equip the student for efficiency in any position to which he may be called. The technical branches are taught by scientifically trained teachers of experience in practical engineering.

By omitting subjects not directly bearing on Engineering, the **time required in other technical schools for completing the work leading to a degree is shortened in Ohio Northern.** An engineering degree is thus placed within the reach of thousands of young men whose circumstances will not permit them to spend the longer period of four years in preparing for a vocation.

To accommodate those desiring the culture gained through the study of the "liberal arts and sciences" in addition to the thorough technical training, the College of Liberal Arts is open to all Engineering students free of extra tuition.

Options

With the advice and consent of the professor in charge, certain subjects may be elected in the various courses to take the place of such as may not appeal to the student in his chosen vocation.

CIVIL ENGINEERING

This is the parent stem of all engineering pursuits, and in its broader sense includes all branches of engineering. Many of its former departments have grown into separate professions, yet there still remains a broad and important field, offering greater opportunities than ever before. No sharp line of distinction can be drawn between the provinces of the civil, electrical, and mechanical engineers. This is evidenced by the large number of subjects studied in common by all the students of the various engineering departments.

The subjects given in the department of Civil Engineering are divided into five groups. **Every candidate for a B. S. in C. E. degree must take all the subjects in Group I.** The candidate may then select any one of the remaining four groups in which to complete his work. It will be noticed that in each of the remaining four groups appears an item, "elective." The student may choose these from any of the groups, or from one of the other engineering departments, or with the consent of the Dean, from one or more of the other colleges of the University.

Practically all the local improvements are under the direct supervision of the College of Engineering. Many thousands of dollars have been expended the past few years for street paving, macadamizing, sewerage, etc., the major portion of the engineering work being done by the students themselves.

The college is supplied with high-grade instruments and appliances necessary for first-class instruction and practice. The laboratories are well equipped, the draughting room large and modern, the scientific library excellent.

Schedule

FIRST QUARTER

Col. Alg. I.	5
Trigonometry	5
Mech. Draw. I.	4
Chem. I.	4
Gym.	1

SECOND QUARTER

Col Alg. II.	4
Anal. Geom. I.	4
Mech. Draw. II.	2
Chem. II.	4
Physics IV.	5
Gym.	1

THIRD QUARTER

Calc. I.	4
Mech. Draw. III.	2
Anal. Geom. II.	4
Chem. III.	4
Physics V.	4
Gym.	1

FOURTH QUARTER

Calc. II.	4
Desc. Geom. I.	5
Engineering Problems	4
Plane Surveying	5
Gym.	1

FIFTH QUARTER

Calc. III.	4
Physics VI.	5
Field Engr.	5
Hyd. I.	5
Gym.	1

SIXTH QUARTER

Mech. of Mtls. I.	5
Hyd. II.	4
Geol.	3
Rail Roads I.	3
Gym.	1

SEVENTH QUARTER

Mech. of Mtls II.	3
Test. Mat.	2
Masonry	3
Options.	10

EIGHTH QUARTER

Stresses II.	4
Graphics	5
Reinf. Conc.	3
Contracts	5

NINTH QUARTER

Stresses II.	4
Br. Des. I.	3
Highway Eng.	3
Option	8

TENTH QUARTER

Br. Des. II.	3
Foundations	3
Estimates	2
Masonry Des.	3
Option	7

Total Required	157
Group Options	23
	180

Physical Education Credits exclusive of 180 required hours.

CIVIL ENGINEERING GROUPS

REQUIRED

GROUP I.

MATHEMATICS

Col. Alg. I. II, III	9
Trigonometry	5
Analytic Geometry I, II	8
Descriptive Geometry I	5
Calculus I, II, III	12

SCIENCE

Chemistry I, II, III	12
Physics IV, V, VI	14
Geology	3
Engineering Problems	4

DRAWING

Mech. Drawing I, II, III	8

APPLIED

Graphics	5
Stresses I, II	8
Bridge Design I, II	6
Mechanics of Materials I, II	8
Hydraulic I, II	8
Masonry	3
Masonry Design	3
Reinforced Concrete I	3
Foundations	3
Testing Materials	2
Highway Engineering	3
Estimates	2
Law of Contracts	5
Plane Surveying	5
Field Engineering	5
Rail Road I	5
	157

OPTIONS

GROUP II

GENERAL

Railroads II	3
Reinforced Concrete II	3
Elementary Electric Mach. I	5
Design of Dams	3
Irrigation and Drainage	3
Electives	6
	180

GROUP III

SANITARY

Sewerage	3
Reinforced Concrete II	3
Water Supply	4
Advanced Chemistry	5
Electives	8
	180

GROUP IV

STRUCTURAL

Descriptive Geometry II	2
Mill Buildings	3
Higher Structures	5
Reinforced Concrete II	3
Metallurgy	2
Electives	8
	180

GROUP V

MATHEMATICAL

Least Squares	2
Geodsey	2
Astronomy	3
Field Astronomy	2
Differential Equations	3
Analytic Mechanics	5
Electives	6
	180

ELECTIVES—Electives may be chosen from the other groups or from the other Engineering Departments or from the Colleges of Law, or Liberal Arts, or Commerce. The electing of such subjects must meet the approval of the Dean.

ELECTRICAL ENGINEERING

The courss offered in this branch of Engineering require a thorough study of theoretical and applied electricity.

The first half of the prescribed study is, in the main, the same as that in the Civil and Mechanical Engineering curriculums, including the fundamental engineering sciences, mathematics, drawing and surveying. The last half consists of courses of study in stresses, graphics, strength of materials, hydraulics, steam engines, advanced study in the theory of electricity, a large amount of laboratory research and experiment, shop tests, plant testing, meter testing, machine drafting and designing, power plant and wiring layouts, and a thorough course in electrical machine design.

All courses given in the schedule are required except those listed under "Options" and "Electives".

The theoretical work is supplemented with practical application in the laboratory and in the operation of power plant machinery. Throughout, the student is drilled in the solution of many numerical problems with a view to a firm grasp of the theory.

In addition to an excellent Physical Laboratory, the department has a well-equipped Electrical Laboratory. A gas engine--driven electric lighting system has been installed for lighting the University buildings and grounds, and for driving the ventilating motors. The University power plant comprises one gas engine unit and semi-Diesel oil unit. To preven interruption to the service, storage batteries have been installed. These batteries are available for test, and form an important addition to the laboratory equipment. In the laboratory, both direct and alternating currents are available for testing purposes.

The recent enlargement of the laboratory and the additional equipment have made it possible to accommodate a large number of students.

A complete steam heating and electric power plant is being installed for operation beginning with the opening of the heating season 1922.

This plant includes high pressure steam boilers, steam engines, turbines and a complete water system. Students in the colleges of Electrical and Mechanical Engineering are required a certain amount of power plant operating experience including power plant testing.

Schedule

FIRST QUARTER

Col. Alg. I.	5
Trigonometry	5
Mech. Draw I	4
Chem. I	4
Gym.	1

THIRD QUARTER

Chem. III	4
Anal. Geom. II	4
Mech. Draw. III	2
Calculus I	4
Physics VI	5
Gym.	1

FIFTH QUARTER

Elec. Machines I	5
Calculus III	4
El. Elec. Machines II	5
El. Elec. Machines Lab. II	4
Gym.	1

SEVENTH QUARTER

Mechanics of Mtls II	3
Elec. Machines VI	5
Elec. Machines IV	5
Elec. Power Plants	5

NINTH QUARTER

Hydraulics I	4
Differential Equations	3
Elec. Machines IX	5
Steam Turbines	4
Shop Projects	2

OPTIONS

10 hours required	
Graphics	5
Elec. Mach IV	5
Elec. Mach VIII	5
One required	
Hyd. Mach'y	4
Hyd. II	4

SECOND QUARTER

Col. Alg. II	4
Anal. Geom. I	4
Mech. Draw. II	2
Chem. II	4
Physics IV	5
Gym.	1

FOURTH QUARTER

El. Elec. Mach. I	4
El. Elec. Mach. I (Lab)	1
Calculus II	4
Descriptive Geometry	5
Physics V	4
Gym.	1

SIXTH QUARTER

Elec. Machines II	5
Mechanics of Mat'ls I	5
Elec. Machines V	5
Mechanism	4
Gym.	1

EIGHTH QUARTER

Elec. Machines VII	5
Elec. Machines III	4
Machine Design I	4
Thermodynamics	5

TENTH QUARTER

Advanced A. C.	5
Hydraulic Machinery or Hydraulics II	4
Elec. Machines VIII	4
Electives	4
Seminar	1

ELECTIVES

Telephone Engineering	4
Electric Power Plants	4
Electric Railways	4
Electric Meters	4
Steam Power Plants	4
Power Plant Operation	4
Steam Boilers	3
Gas Engines	5
Plane Surveying	5
Other Colleges	9

Physical Education Credits exclusive of 180 required hours.

MECHANICAL ENGINEERING

Mechanical Engineering deals with the transformation and transmission of energy, and with the theory and construction of mechanism and machinery.

The first half of the curriculum consists of the basic engineering studies. In the latter half an exhaustive study is made of all phases of heat engineering, together with the design, erection and maintenance of power plant apparatus. Thorough training is given in machine drafting, machine design, thermodynamics, steam engines, steam boilers, gas egines, electrical machinery and steam power plants.

The University has its own gas-engine-driven lighting plant and a central steam heating plant, lighting and heating all the University buildings. This equipment is installed with special convenience for making tests on boilers, heating apparatus and power apparatus.* In addition the central heating and lighting plant of the Ada Heating and Light Co., with its equipment of Diesel engines, high pressure water pumps, et cetera, is open to the students for inspection and test.

* See the University Power Plant, page 83.

A well equipped machine shop recently added to the laboratory outfit, gives opportunity for training in the use of tools and general machine shop practice.

FIRST QUARTER

College Algebra I	5
Trigonometry	5
Mech. Drawing I	4
Chemistry I	4
Gym.	1

SECOND QUARTER

College Algebra II	4
Anal. Geometry I	4
Mech. Drawing II	2
Chemistry II	4
Physics IV	5
Gym.	1

THIRD QUARTER

Anal. Geometry II	4
Calculus I	4
Mech. Drawing III	2
Chemistry III	4
Physics VI	5
Gym.	1

FOURTH QUARTER

Calculus II	4
Desc. Geometry I	5
Physics V	4
El. Elec. Mach. I	4
Gym.	1

FIFTH QUARTER

Calculus III	4
Hydraulics I	4
Thermodynamics	5
El. Elec. Mach. II	5
Gym.	1

SIXTH QUARTER

Anal. Mech.	5
Steam Power Plants I	4
Mech, of Matls. I.	5
Mechanism	4
Gym.	1

SEVENTH QUARTER	
Mech. of Matls. II	3
Steam Power Plants II	3
Plane Surveying	5
Graphics	5
Valve Gears	2

EIGHTH QUARTER	
Stresses I	4
Gas and Oil Engines	3
Mach. Design I	4
Machine Shop	3
Metallurgy	4

NINTH QUARTER	
Steam Turbines	4
Heat and Vent. and Ref.	5
Mach. Design II	4
Testing Matls	2
Mech. Laboratory I	3

TENTH QUARTER	
*Hydraulic Mchy	4
Gas Engine Des.	4
Mech. Laboratory II	3
Elective	6

*Hydraulics II may be substituted for Hydraulic Machinery.
Physical Education Credits exclusive of 180 required hours..

CHEMICAL ENGINEERING

The aim is to thoroughly acquaint the student with the fundamental principles of chemical science, and to afford him a complete drill in analysis and in the preparation of inorganic and organic products, and thus to enable him to attack and solve the many chemical and metallurgical problems evolving from the rapid development of the industries.

Schedule

FIRST QUARTER	
Col. Algebra I	5
Trigonometry	5
Mech. Drawing I	4
Chemistry I	4
Gym.	1

SECOND QUARTER	
Col. Algebra II	4
Analyt. Geom. I	4
Mech. Draw. II	2
Chemistry II	4
Physics IV	5
Gym.	1

THIRD QUARTER	
Calculus I	4
Physics VI	5
Mech. Draw. III	2
Analyt. Geom. II	4
Chemistry III	4
Gym.	1

FOURTH QUARTER	
Calculus II	4
Physics V	4
Qual. Chemistry I	5
El. El. Mach. I	4
Gym.	1

FIFTH QUARTER	
Qual. Chem. II	5
Thermodynamics	5
Hydraulics I	4
El. El. Mach. II	5
Gym.	1

SIXTH QUARTER	
Mech. of Mat. I	5
*Hydraulics II	4
Chem. Stochiomtery	4
*Des. Geom. I	5
Gym.	1

SEVENTH QUARTER	
*Mech. of Mat. II	3
Ind. Inorg. Chem.	4
*Plane Surveying	5
*Graphics	5

EIGHTH QUARTER	
*El. Mch. I	5
Org. Chem. I	5
Water Supply	4
Metallurgy	4

NINTH QUARTER	
Quan. Chem.	5
Org. Chem. II	5
*El. Mach. II	4
Geology	3

TENTH QUARTER	
Mechanism	4
Analyt. Chem.	4
Estimates	2
Ind. Org. Chem.	5
College Rhetoric	3
Thesis	

Twenty-five hours of the subjects marked with an (*) may be made optional from the following courses.

Physical Education Credits exclusive of 180 required hours.

STRUCTURAL DRAFTING

Many young men for reasons, financial or otherwise, do not aspire to the longer courses leading to a degree, but would gladly avail themselves of the opportunity to prepare themselves to enter the busy "Structural Field." For such this schedule has been arranged, on completion of which a certificate will be granted. There is no preparation other than the grades necessary to enter this course.

Schedule

FIRST QUARTER	Hours
Algebra I.	5
English Composition	5
Mechanical Drawing I.	4
Geometry I.	5

SECOND QUARTER	
Algebra II.	5
Geometry II.	5
Preparatory Rhetoric I.	5
Mechanical Drawing II.	2
Physics I.	5

THIRD QUARTER	Hours
Algebra III.	5
Geometry III.	5
Mechanical Drawing III.	2
Descriptive Geometry I.	5
Business English	4

FOURTH QUARTER	
Algebra IV.	5
Machine Drawing I.	4
Descriptive Geometry II.	2
Graphic Statics	5
Trigonometry	5

DEGREES

The University is empowered to grant the customary scholastic degrees.

The management accepts grades of equal value from other institutions of learning, yet the applicant for a degree is required to do at least 45 hours of work here. No diploma is granted on grades made wholly in other institutions.

On hundred and eighty credit hours are required for graduation, two hours of field or laboratory work counted one credit hour.

THESIS

Every candidate for a degree must prepare a thesis upon some technical or scientific study, which lies within the field of the degree sought, and may be either designing, constructing, testing or research; the study to be selected by the professor in charge and the subject to be announced not less than twenty-four weeks preceding graduation.

The form of the finished thesis must be in accordance with the requirements of the department and the library and be deposited with the Dean at least four weeks before the conferring of the degree.

SEMINAR

Weekly conferences are held for the purpose of discussing current engineering events and topics.

STUDENT TECHNICAL ORGANIZATIONS

The Ohio Northern Chapter of the American Association of Engineers holds bi-monthly meetings. All engineering students are eligible to membership. Proceedings of the American Association of Engineers are received and discussed.

The Ohio Northern Society of Chemical Engineers holds bi-monthly meetings. All students of Chemical Engineering are eligible for membership. Technical papers pertaining to chemical engineering are read and chemical and metallurgical subjects are discussed.

The Ohio Northern Branch of the American Institute of Electrical Engineers hold bi-monthly meetings. All electrical students are eligible to membership. At these meetings, original papers and papers printed in the proceeding of American Institute of Electrical Institute are read and discussed.

The Ohio Northern Chapter of Mechanical Engineers hold meetings bi-monthly. All students of Mechanical Engineering are eligible to membership. New developments in the field of mechanical engineering are investigated and discussed.

In honor of George Washington, "Surveyor, Soldier, Statesman," the societies named above devote the week of February 22, to a series of Technical Lectures, Annual Exhibit, Annual Banquet, etc.

EXPENSES

See earlier pages of this bulletin.

DESCRIPTION OF COURSES

For description of courses and daily schedule of classes see special Engineering Bulletin.

COLLEGE OF LAW

WILLIAM PRICE HENDERSON, DEAN

When Organized

The College of Law was organized as a department of the University in 1885, and numbers among its alumni and former students many of the most prominent lawyers of Ohio and other states. Its graduates have been uniformly successful as applicants for admission to the bar and as practitioners.

Its Purpose

The aim of its founders was to afford an opportunity for students of limited means, to secure a collegiate training in law, and by connection with the University to offer to them the added opportunity of obtaining the general education indispensable to the successful study and practice of law. With this in mind, tuition rates are made very reasonable, and every effort is put forth to accommodate the student of limited means, but earnest purpose.

The courses are planned primarily to train students for the practice of law, but they may advantageously be pursued by anyone desiring to secure a knowledge of the principles and history of law, either as part of a liberal education, or as part of the foundation of a business career, and special attention is given to the needs of such students.

In the training of students for the practice of law, the college has four chief aims:

(a) To give a thorough, systematic grounding in the history and fundamental principles of the law.

(b) Subordinately, but as an essential feature of the work of the college, to give special instruction preparatory to examinations for admission to the bar. This special instruction consists of a thorough quiz and review of the whole course, and covers a period of about three months. It is given twice each year before June and December bar examinations and is open to all students, whether they have taken the regular courses in this College of Law or some other Law School. Many students who have studied under a preceptor in an office avail themselves of this instruction.

(c) To impart a working knowledge of statute law and court practice and procedure, to the end that the young lawyer may intelligently and readily serve his clients.

(d) To inculcate the principle of legal ethics and of the lawyer's public responsibility, to the end that the young lawyer may take his proper place as a leader in his community.

Equipment

The College of Law occupies commodious rooms in the new Lehr Memorial building. Its good working library is now larger and better suited to the work of the College than ever before in its history, several important and valuable sets, including the American Digest System and Lawyer's Reports Annotated, both series and a set of the best edition of the United States Supreme Court Reports, having been added recently.

Outline of Courses

(In the following outline, the figure preceding the name of the course indicates the number of the course; that following, the number of credit hours given for the satisfactory completion of the course. A credit hour is given for the satisfactory completion of work requiring one clas period a week for one quarter.)

FIRST YEAR

Fall Quarter	Winter Quarter	Spring Quarter
Contracts I. ---5 Hrs.	Contracts II. --5 Hrs.	Agency -------5 Hrs.
Personal Property and Sales ---5 Hrs.	Domestic Relations ------------5 Hrs.	Quasi-Contract 3 Hrs.
Torts --------5 Hrs.	Bailments ----3 Hrs.	Criminal Law and Procedure ---5 Hrs.
	Partnership ---5 Hrs.	History, Origin, and Sources of Law -----------3 Hrs.

SECOND YEAR

Fall Quarter	Winter Quarter	Spring Quarter
Real Property I.------ -----------5 Hrs.	Real Property II.---- ------- --5 Hrs.	Administration of Estates ----3 Hrs.
Private Corporations -----------5 Hrs.	Wills --------5 Hrs.	Municipal Corporations --5 Hrs.
Insurance ----3 Hrs.	Suretyship ---4 Hrs.	Negotiable Instruments ------5 Hrs.
Damages -----3 Hrs.	Conflict of Laws----- ------------3 Hrs.	Trusts -------5 Hrs.

THIRD YEAR

Fall Quarter	Winter Quarter	Spring Quarter
Constitutional -----------4 Hrs.	Constitutional Law II.------4 Hrs.	Legal Ethics ---1 Hr.
Pleading I. ---5 Hrs.	Pleading II. --5 Hrs.	Brief Making and Use of Law Books, General Review and Quiz---15 Hrs.
Equity I. -----5 Hrs.	Equity II. ----5 Hrs.	
Bankruptcy ---3 Hrs.	Evidence -----5 Hrs.	

Lectures are given on legal ethics, legal history, international law and court practice.

135 credit hours required for graduation.

Method of Instruction

Each subject scheduled in the course of study requires for its completion five recitation periods of one hour each, per week throughout the quarter, except where otherwise indicated.

The instruction is based upon the text assigned for study, combined, in the second and third years, with a judicious use of cases, and completed, in the third year, with a thorough "quiz," under the personal instruction of the dean, preparatory to examinations for admission to the bar.

The recitation includes a thorough questioning of the student upon the text and cases studied and informal discussions by instructor and students, with constant reference to the statutes and leading cases of the jurisdiction, the whole exercise aiming to combine a knowledge of the history and fundamental principles of the law with its actual application to coses, thus giving the student a thorough grasp of the law, not only in its development, but as it now exists.

Moot Court

Moot Court, under the direct supervision of the faculty, forms a regular part of the work, in which each student is expected to participate. He is required to get out all the papers necessary for the case, and to follow the customary order of procedure. Pleadings, writs, motion and journal entries, together with the principles of proceeding in appeal and error, are supervised in detail; juries are chosen, witnesses examined, motions heard, and everything is made to conform as nearly as possible to the practice of the regular courts.

Admission

Students may enter the College at anytime, but, in order to receive full credit toward graduation, for work done, must enter at the beginning of a quarter.

At the beginning of the college year 1917-1918, the following rules as to the admission to the College became effective:

Candidates for a degree will be required, upon their application for admission, to furnish satisfactory evidence of graduation from a first-grade high school, or from a school of equivalent standing.

Students not candidates for a degree may enter upon proving, to the satisfaction of the Dean, that they possess such general education as will enable them to pursue the study of law intelligently. Special effort will be made, as in the past, to offer such students every reasonable advantage, and special attention will continue to be given to the needs of special students who are preparing for the examinations for admission to the bar.

Preliminary to Bar Examination

The preliminary literary work required for admission to the Bar examination may be taken in the University under the regular law tuition, and a certificate showing the completion of the course in the Preparatory School admits the student to the Bar examination in this state, without a preliminary examination.

Graduation

The degree of Bachelor of Laws is conferred on students who have completed the prescribed course of study.

The following conditions as to graduation will be enforced:

Credit toward graduation will be given for not more than one year's study of law under the actual tuition of a reputable practicing attorney at law. Such study must be proved by the certificate of such attorney at law not only as to the length of time spent in study but as to the subjects studied, the text or case books which formed the basis of the study, and the quality of the work done by the student.

Credit toward graduation will be given for not more than two year's study of law in residence in any reputable law school in the United States maintaining a three years' course of study, and proper credit will be given for study in residence in any reputable law school in the United States maintaining a course of study less than three years in length.

No credit will be given for correspondence school work.

No student will be graduated who has not studied law for a period equivalent to nine college quarters, of which time a period equivalent to at least six quarters must have been spent in residence at some reputable law school, and of which at least the last three quarters must have been spent in residence in this College of Law.

Students not candidates for a degree may select from the courses offered such work as they desire, with the approval of the dean, not to exceed a maximum of 20 credit hours per quarter.

The summer quarter is a full quarter a twelve weeks. Full courses in the College of Law are offered under the instruction of members of the regular faculty, and full credit is given for work done in this quarter. This quarter offers an excellent opportunity for teachers, and others who are unable to be in attendance during the remainder of the year, as well as for regular students who wish to complete their course in less than three calendar years, or to make special preparation for bar examinations. Quiz classes, in preparation for such examinations, are formed regularly as part of the work of this quarter, and classes are formed in such of the other regular courses as may be necessary, to meet the demands of students.

Expenses

For expenses see earlier pages of this bulletin.

COLLEGE OF PHARMACY

RUDOLPH HENRY RAABE, DEAN

Advantages Offered Here

Under the Laws of Ohio, a School of Pharmacy in good standing is (1) one that demands for entrance the certificate of preliminary education issued by the entrance examiner of the State Board of Pharmacy; (2) that has a two-year course covering at least fifty weeks actual instruction occupying two school years with at least two months elapsing between the two years. Each school year must cover at least 250 clock hours of class room instruction and 350 clock hours individual laboratory work, and cover at least the work outlined in the "1913 Syllabus."

The College of Pharmacy of the Ohio Northern University established in 1885, with constantly added facilities and enlarged plans, is preparing men and women to meet fully, not only the legal requirements, but also the increasing public demand for educated and trained pharmacists.

Practical and thorough courses are offered at the least expenditure of time and money; equipment, courses offered and facilities for work are modern.

Excellent opportunity for registered "Assistants," if graduates of a recognized college, who wish to review for examination as "Pharmacists."

Young women admitted on an equality with young men.

The Ohio Board of Pharmacy grants recognition to the graduates of the O. N. U. College of Pharmacy.

Standardized courses means that our graduates are recognized in nearly every state; full recognition in Pennsylvania, New York and Indiana.

Laboratories

In addition to the general biological, chemical and physical laboratories of the University the College of Pharmacy has two Pharmaceutical and Dispensing laboratories. The desk arrangement is such as to afford the student every facility for complete and thorough work, and the tables are supplied with an entire outfit of apparatus, including storing closet.

The laboratory for practical chemical work is equipped with all the accessories necessary for chemical analysis and synthesis. In this laboratory the student is required to perform a satisfactory amount of analytical and synthetical work under the personal attention of the Professor of Chemistry and an able assistant.

The Microscopical Laboratory is equipped with fine instruments for individual microscopic investigation.

Requirements for Admission

Applicants for admission to the regular course leading to the degree of Graduate in Pharmacy must present a certificate of preliminary education from the Entrance Examiner of the State Board of Pharmcry.

The State Board of Pharmacy announces as follows:

"The following preliminary educational credentials shall be sufficient: On and after January 1, 1920, a diploma from a legally constituted high school, normal school or academy, issued after at least four years of study." Persons who actually entered recognized colleges prior to Jan. 1, 1920, will be permitted to continue their courses without procuring another entrance certificate.

Those wishing to pursue the three-year's course of study leading to the degree of Pharmaceutical Chemist (Ph.C.) must present an entrance certificate from the State Examiner.

Persons wishing to pursue the four-year course of study leading to the degree of Bachelor of Science in Pharmacy (B. S. in Pharm.) must present an entrance certificate from the State Examiner.

Students from other recognized Colleges of Pharmacy will be admitted to advanced standing upon satisfactory evidence that they have met all the requirements established by this college to attain such standing.

When to Enter

The College of Pharmacy opens on Tuesday, September 11, 1922, and continues thirty-six weeks, with an intermission at Christmastide.

The student shall enter the College of Pharmacy on opening date and attend the introductory exercises unless excused by proper authorities. To enter the regular courses the student must present an entrance certificate from the State Examiner, matriculate, and pay tuition and fees as stated elsewhere in this catalogue.

Special students may enter at any time upon recommendation of the Dean and approval of the President.

Students who are entitled to advanced standing will enter at the time arranged by the Dean.

Schedules

Degree: Pharmaceutical Graduate

FIRST YEAR

Physiology	5	General Materia Medica	1
General Inorganic Chem. I.	4	Pharmaceutical Botany I.	5
Pharmaceutical Arithmetic	5	General Inorganic Chem. II.	4
Pharmaceutical Technique	2	Pharmaceutical Latin	3
		Posology	1

Pharmaceutical Botany II.	5
General Inorganic Chem. III.	4
Pharmacy I.	5

SECOND YEAR

Pharmacognosy I.	5	Pharmacognosy II.	5
General Organic Chem. I.	5	General Organic Chem. II.	5
Pharmacy II.	5	Materia Medica II.	5

Quantitative Analysis I.	5
Pharmacy IV.	5
Pharmacy III.	5

At least 1308 clock-hours are required to complete this course, 540 clock-hours, in lectures and recitations, and 768 clock-hours in laboratory.

Degree: Pharmaceutical Chemist

FIRST YEAR

Physiology	5	General Materia Medica	1
General Inorganic Chem. I.	4	Posology	1
Pharmaceutical Arithmetic	5	Pharmaceutical Latin	3
Pharmaceutical Technique	2	General Inorganic Chem. II.	4
		Pharmaceutical Botany I.	5

Pharmaceutical Botany II.	5
General Inorganic Chem. III.	4
Pharmacy I.	5

SECOND YEAR

Pharmacognosy I.	5	Pharmacognosy II.	5
General Organic Chem. I.	5	General Organic Chem. II.	5
Pharmacy II.	5	Pharmacy III.	5

Materia Medica II.	5
Quantitative Analysis I.	5
Pharmacy IV.	5

THIRD YEAR

Materia Medica I.	5	Materia Medica III.	2½
Qualitatave Analysis I.	5	Toxicology	2½
Pharmacy V.	5	Qualitative Anaysis II.	5
		Pharmacy VI.	5

Materia Medica Section (elective)	5
Organic Chemistry III.	5
Special Chemistry (elective)	5
Pharmacy VII. or elective	5

At least 1980 clock-hours are required to complete this course, 828 clock-hours in lectures and recitations and 1052 clock-hours in laboratory.

Degree: Bachelor of Science in Pharmacy

FIRST YEAR

Physics IX.	4	Biology II.	3
Biology I.	3	Physics X.	4
German or French	5	German or French	5
General Inorganic Chem. I.	4	General Inorganic Chem. II.	4

Biology III.	3
German or French	5
Physics XI.	4
General Inorganic Chem. III.	4

SECOND YEAR

Physiology	5	General Materia Medica	1
General Organic Chem. I.	5	Posology	1
Pharmaceutical Arithmetic	5	Pharmaceutical Botany I.	5
Pharmaceutical Technique	2	Pharmaceutical Latin	3

General Organic Chem. II.	5
Pharmaceutical Botany II.	5
General Organic Chem. III.	5
Pharmacy I.	5

THIRD YEAR

Pharmacognosy I.	5	Pharmacognosy II.	5
Qualitative Chem. I.	5	Qualitative Chem. II.	5
Pharmacy II.	5	Pharmacy III.	5

Materia Medica II.	5
Quantitative Chemistry I.	5
Pharmacy IV.	5

FOURTH YEAR

Materia Medica I.	5	Materia Medica III.	2½
Elective Chemistry	5	Toxicology	2½
Pharmacy V.	5	Elective Chemistry	5
		Pharmacy VI.	5

Elective in Materia Medica Section	5
Elective Chemistry	5
Pharmacy VII.	5

A least 2652 clock-hours are required to complete this course, 1116 clock-hours in lectures and recitations and 1536 clock-hours in laboratory.

DESCRIPTION OF COURSES

Materia Medica Section

Physiology. **5 Hrs.**

A brief course in human physiology preparatory to the study of the action of drugs. The digestive, circulatory, respiratory and nervous systems are the chief subjects considered. Lectures and recitations, 36 hours. Laboratory 48 hours.

General Materia Medica. **1 Hr.**

In this course the student becomes acquainted with the general classification of drugs and medicines. Classification is based upon dynamics. Lectures and recitations, 12 hours.

Pharmaceutical Botany I. **5 Hrs.**

The aim of this course is to acquaint the student with the main group of plants, their characteristics, and economic importance. The course is progressive, beginning with the lowest types, and ending with the highest. Lectures and recitations, 36 hours. Laboratory, 48 hours.

Pharmaceutical Botany II. **5 Hrs.**

The cell, cell contents and general anatomy of the parts of the plants, such as root, stem, leaf, flower, fruit and seed, are the subjects of this course. A few drugs from each classification will be considered. Lectures and recitation, 36 hours. Laboratory, 48 hours.

Posology. 5 Hrs.

This is a brief course intended to familiarize the first year student with the science of dosage. Lectures and recitations, 12 hours.

Pharmacognosy I. 5 Hrs.

In this course the student is taught how to identify, select, and value drugs miscrosopically. He will learn the official names, definition, habitat and constituents of each drug studied. Lectures and recitations, 36 hours. Laboratory, 48 hours.

Pharmacognosy II. 5 Hrs.

This is a continution of Pharmacognosy I. Attention will be given to preservation, adulteration and identification of powdered drugs. A liberal use of the compound miscroscope is required in this course. Lectures and recitations, 36 hours. Laboratory 48 hours.

Materia Medica I. 5 Hrs.

A course in inorganic Materia Medica. Special attention will be given to official names, physiological action and doses. The physical and chemical properties of these drugs will receive attention in so far as they infiuence their action. Lectures, recitations, 36 hours. Laboratory, 48 hours.

Materia Medica II. 5 Hrs.

This is a course in organic Materia Medica (vegetable). The organic drugs will be classified according to their action upon the human body. Attention will be given to official names, constitutents, action and dosage. Lectures and recitations, 60 hours.

Materia Medica III. 2½ Hrs.

A course in organic Materia Medica (animal). These drugs will be classified zoologically. Attention will be given to official names, definitions, sources, action and dosage. Lectures and recitations, 18 hours. Laboratory, 24 hours.

Toxicology. 2½ Hrs.

A study in the principles of poisoning, classification of poisons, and effects of each class. Lectures and recitations, 30 hours.

Biological Assaying. 5 Hrs.

Attention will be given to biological assaying methods and standardization of the U. S. P. drugs that are most satisfactory valued by this method. Lectures, recitations, 12 hours. Laboratory, 96 hours.

Bacteriology.

A course in pharmaceutical bacteriology will be offered in connection with the department of biology upon demand of a sufficient number of students.

Chemistry Section

Chemistry 1. General Inorganic Chemistry 4 **Hrs.**

Chemistry 2. General Inorganic Chemistry 4 **Hrs.**

Chemistry 3. General Inorganic Chemistry 4 **Hrs.**

These three courses constitute the first year of work in general chemistry. In Courses 1 and 2 a thorough study of the non-metallic elements and their compounds is made. The metallic elements and their compounds are considered in Course 3. Balancing equations by the bond method and basic analysis are included in this course. Each of these courses is given every quarter of the year. They must be taken in the sequence above. Three hours lecture and recitation and four hours laboratory. McPherson and Henderson text.

Qualitative Analysis I. 5 **Hrs.**

A course in inorganic Qualitative Analysis. Prerequisites: General Inorganic Chemistry I, II and III. The greater portion of this course is devoted to laboratory practice.

Qualitative Analysis II. 5 **Hrs.**

This is a continuation of Qualitative Analysis I.

General Organic Chemistry I. 5 **Hrs.**

A study of the structure and constituents of the carbon compounds; the hydro-carbons and carbohydrates with many of the addition and substitution products. Lectures and recitations, 60 hours.

General Organic Chemistry II. 5 **Hrs.**

General Organic Chemistry III. 5 **Hrs.**

This is a continuation of General Organic Chemistry I. Lectures and recitations, 24 hours. Laboratory, 80 hours.

Quantitative Analysis I. 5 **Hrs.**

Quantitative Analysis II. 5 **Hrs.**

This work consists of Volumetric and gravimetric analysis; the determination of acidity and alkalinity; the analysis of organic and inorganic salts. Lectures, 12 hours. Laboratory, 96 hours.

Physical Chemistry. 5 **Hrs.**

Industrial Chemistry. 5 **Hrs.**

Special Chemistry. 5 **Hrs.**

Under this head are grouped several electives, viz., analysis of drugs and chemicals, coal and coke, iron and steel, cement, ores and others.

Pharmacy Section

Pharmaceutical Arithmetic. **5 Hrs.**

A course in calculation pertaining to Pharmacy. The student is taught current weights and measures. Metric system, English system, proportion, alligation, specific gravity and specific volume, comparison of thermometer scales, are the chief topics. Special attention is given to the metric system of weights and meausres, and their relationship with the English system of weights nd measures. Lectures and recitations, 48 hours. Laboratory, 24 hours.

Pharmaceutical Latin. **3 Hrs.**

A course covering such essentials of inflection and syntax as to familiarize the student with the etymology and construction of the nomenclature used in the United States Pharmacopoeia and National Formulary and to enable him to read prescriptions. Lectures and recitations, 36 hours.

Pharmaceutical Technique. **2 Hrs.**

An introductory course in the principles upon which pharmaceutical operations are based. Lectures, demonstrated lectures and recitations, 36 hours.

Pharmacy I. Galenical. **5 Hrs.**

The chief topics of this course are waters, infusions, decoctions, syrups, mucilages, spirits, tinctures, fluid extracts, and other classes of preparations of quite similar nature. Lectures and recitations, 36 hours. Laboratory, 48 hours.

Pharmacy II. Galenical. **5 Hrs.**

This course is a continuation of Pharmacy I. Attention is given to those official preparations which require skill and careful manipulation. Mixtures, emulsions, liquors and certain acids, are the chief topics. Lectures and recitations, 36 hours. Laboratory, 48 hours.

Pharmacy III. Dispensing. **5 Hrs.**

This is a course in extemporaneous pharmacy. Prescriptions, compounding and dispensing prescriptions, and incompatibilities are the chief subjects of this course. The student will be given a liberal opportunity to compound actual prescriptions. Lectures, 12 hours. Recitations, 12 hours, Laboratory, 72 hours hours.

Pharmacy IV. Commercial. **5 Hrs.**

Bookkeeping, Business Correspondence, Commercial Law, Salesmanship, Pharmaceutical Laws and business practice, are some of the subjects offered under this heading. See schedule for electives.

Pharmacy V. **5 Hrs.**

Manufacture and standardization of inorganic pharmaceuticals. Lectures, 12 hours. Laboratory, 96 hours.

Pharmacy VI. **5 Hrs.**

Manufacture and standardization of tinctures, fluid extracts and extracts. Lectures 12 hours, laboratory 96 hours.

Pharmacy VII. **5 Hrs.**

Manufacture of pharmaceuticals on the commercial basis. Lectures and recitations. Inspection of certain manufacturing plants will be required.

For courses in Language, Mathematics, Biology and Physics, see description of courses under College of Liberal Arts.

Requirements for Graduation

To receive the degree of Pharmaceutical Graduate (Ph.G.), the candiate must be of good moral character and must have satisfactorily completed the two-year course of study.

To receive the degree of Pharmaceutical Chemist (Ph.C.), the candidate must be of good moral character and must have satisfactorily completed the three-year course of study.

To receive the degree of Bachelor of Science in Pharmacy (B.S. in Pharm.), the candidate must be of good moral character, and must have satisfactorily completed the four-year course of study.

As a further condition of graduation all candidates for the Ph.G. degree must be in resident study in this colloge at least two quarters, for the Ph.C. degree at least one year and for the B. S. in Pharm. degree at least one year, together with credits issued by other recognized colleges.

THE PREPARATORY SCHOOL

FRANKLIN LEWIS BERGER, DIRECTOR

FACULTY

ALBERT EDWIN SMITH, D.D., Ph.D.
President

FRANKLIN LEWIS BERGER, A.B., B.S.

RICHARD HOLMES SCHOONOVER, A.M.
Greek, Latin, Rhetoric

GEORGE ANDERSON, D.D.
English, History

EUNAH JOHNSON, A.B.
Mathematics, French

JESSE RAY HARROD, B.S.
Physics

ANDREW SCOTT STAUFFER, B.S.
Biology

Purpose

The Preparatory School is organized for the purposes of (1) preparing students for college entrance, (2) affording an opportunity to any desiring to complete the work commonly required in first class high schools.

The course of study in the preparatory school is arranged to meet the usual requirements for college entrance, the minimum of which is fifteen units. The unit consists of five recitations per week for three quarters. Each recitation period is fifty-five minutes in length, two laboratory periods counting as one recitation period.

If a student, on completing the preparatory courriculum, desires to enter college elsewhere, a certificate is issued, showing that the entrance work has been finished. The Preparatory School is accredited as the equivalent of a first grade high school by the State Department of Education of Ohio.

Admission

Students are admitted at the beginning of any quarter, although it is to the student's advantage to enter at the beginning of the fall quarter.

Requirements for Graduation

Sixteen units are required for graduation.

Beginning Sept. 11, 1922, two units of Latin will be required of all desiring diplomas.

English	3	**History**	1
Foreign Language	2	**Science**	1
Mathematics	2		

At least 4 additional units must be selected from the following subjects, the number indicating the maximum number of units that will be accepted in any subject.

English	4	**Mathematics**	3
Latin	4	**Physics**	1
Greek	3	**Chemistry**	1
French	3	**Phys. Geography**	1
German	3	**Botany**	1
Spanish	3	**Zoology**	1
History	4		

Not more than three units may be presented from the following subjects:

Mechanical Drawing	1	Stenography	1
Domestic Science	1	Typewriting	½
Commercial Geography	1	Music	½ or 1
Physical Geography	½	Commercial Law	½
Manual Training	1		

Course of Study

	FIRST QUARTER	SECOND QUARTER	THIRD QUARTER
First Year	Latin I. Algebra I. Grammar Anc. and Med. Hist. I.	Latin II. Algebra II. Composition I. Anc. and Med. Hist. II.	Latin III. Algebra III. Composition II. Anc. and Med. Hist. III.
Second Year	Cassar I. Biology I. Rhetoric I. Mod. Hist. I.	Caesar II. Biology II. Rhetoric II. Mod. Hist. II.	Caesar III. Biology III. Rhetoric III. Mod. Hist. III.
Third Year	Cicero I. or Modern Language Plane Geom. I. Amer. Lit. I. Amer. Hist. I.	Cicero II. or M. L. Plane Geom. II. Amer. Lit. II. Amer. Hist. II.	Cicero III, or M. L. Plane Geom. III. Amer. Lit. III. Civics
Fourth Year	Virgil I. or M. L. Algebra IV. Physics I. English Lit. I.	Virgil II. or M. L. Algebra and Geom. IV. Physics II. English Lit. II.	Virgil III. or M. L. Geom. V. Physics III. English Lit. III.

The Curriculum

The amount and quality of work done in the various subjects taught is intended to meet the requirements of the North Central Association of Colleges and Secondary Schools.

Expenses

The tuition is $34 per quarter, or $100 for the regular school year of 36 weeks.

Room and board may be had at most reasonable rates. Good rooms cost from $1.50 to $2.50 per week. Board by the week costs from $4.00 to $5.00 per week. The University owns and operates a splendid cafeteria for the benefit of the student body.

Aid to Students

Loan Fund. The Board of Education of the Methodist Episcopal Church lends money to members of that church taking a regular course in school, who have been in attendance long enough to merit a recommendation from the Faculty. No interest is charged if the debt is paid within five years from the time of leaving school, but a payment of $5.00 each year must be made on the principal, after the applicant quits school. The only security required is a recommendation from a quarterly conference. Loans are made at the beginning of each quarter. Application should be made two weeks before the opening of the quarter and no applicant can be received later than the close of the first week of the quarter. The maximum amount allowed to each applicant is $100 a year. An applicant must have been in attendance at least one quarter.

Work. Many students in the University earn a part of their expenses by working as waiters, janitors, and at other occupations in the town and vicinity.

Registration

The first duty of the new student is to matriculate. He then receives a registration card which he takes to the director of the preparatory school. The director indicates on the card the subjects assigned for the quarter. The student then takes the card to the treasurer, pays his tuition and other fees, and is given a duplicate of his registration card as a receipt and ticket of admission to his classes.

Discipline

Each student is expected to conduct himself as a good citizen of the school. The student is required to attend every class exercise. If absent from any class exercise, the student must get a blank form from the registrar and indicate on it the date and reason for his absence. This must be handed to the instructor at once. A committee on absences acts on these at the close of each quarter, and may or may not grant excuse for such absence. Each unexcused absence reduces the credit hours for the quarter one-fifth hour for each absence.

A student making "Cn" or "F" in half or more of his assigned work for any quarter, will be denied future registration unless he petitions the faculty and gains their consent for registration.

Marks and Examiniations

The grade marks are Excellent, Good, Average, Passing, Conditioned, Failure. These marks carry also the following quality points:

Ex., 3; G, 2; Av., 1; P, 0; Cn., -2; F, -3.

Examinations are held regularly at the close of each quarter. Mid-term examinations are given at the discretion of each instructor.

Amount of Work Allowed

The student is allowed to carry 20 hours of class work per week unless his work is of high enough character to justify his carrying more hours. If the student has in excess of 25 quality points earned the preceding quarter, he may register for 25 hours, provided that no subject is marked conditioned or failed.

Advantages

If the student is industrious and attentive, he may carry 25 hours of work. This will enable him to complete the entire course in nine quarters. Because the school is in session during the summer, the student may complete the entire preparatory course in one term more than two years. **This represents a great saving of time and money.**

Because of the connection of the preparatory school with the University, the student enjoys peculiar and valuable privileges. Among these may be mentioned the three literary societies, the Y. M. C. A., the Y. W. C. A., the college library, excellent laboratories, physical training under experienced instructors, and supervision of his work by regular college instructors.

Reports

Reports will be furnished to parents or guardian at any time on request.

SCHOOL OF COMMERCE

EMMET ELIJAH LONG, DIRECTOR

Aim

The School of Commerce aims to prepare young men and women to "do things" in the realm of commercial activity.

Location and Equipment

This School occupies the entire third floor of Lehr Memorial, equipped throughout with up to date fixtures and office furnishings for class use, Remington typewriters, Burrough's adding machine, posting machine and calculators, and all appliances needed in efficient instruction. The quarters are roomy, with abundance of light, ventilation and toilet conveniences.

The Courses of Study

The courses of study, thorough and practical, are arranged to meet the needs of young men and women planning to enter fields of business organization and administration or upon clerical, stenographic, secretarial or commercial teaching careers.

Time Required

It requires about three quarters (nine months) to complete the short course either in Bookkeeping or Stenography, the length of time depending upon previous educational preparation, aptness and application; the two years course in Commerce, about six quarters; the Commercial Teachers' Normal Course, six quarters; the Pre-Commerce Course, six quarters. Students are promoted as rapidly as they advance, but no student is permitted to enter a higher or advanced class until all prerequisite work has been completed.

Degrees and Diplomas

Students completing the Commercial Teachers' Normal course are granted a diploma with the rank, "Graduate of Pedagogy in Commerce;" persons completing the two years course are ranked "Graduate in Commerce;" student completing the shorter courses are certified and graduated with the rank, "Graduate in Bookkeeping" and "Graduate in Stenography," respectively.

Special Students

The regular courses have been arranged for those who have completed high school or preparatory work. Students not having had such preliminary training, or those not caring to complete a prescribed course will be admitted as special students. Certificates showing amount of work completed will be issued to special students. These credits may be applied on regular courses later, should they become candidates for graduation.

When to Enter

Students are admitted at the beginning of each quarter. Many of the subjects scheduled in the two short courses, the two years course, and the Teachers' Normal course are repeated each term.

In the Summer quarter an excellent opportunity is given for teachers and those unable to attend during the other months of the year to pursue the course desired.

See calendar on the second page of the catalogue.

Situations for Students

Positions are not guaranteed, but the Employment Bureau of the University cheerfully assists graduates and students qualified for positions. There is no charge for this execpt the necessary postage.

The O. N. U. Commercial Club

The Commercial Club is a live organization maintained by the students and faculty of the School of Commerce. It meets regularly and discusses the many phases of business activity and commercial topics.

University Advantages

The University offers to every student of the School of Commerce additional privileges: Admission to courses in the College of Liberal Arts without extra charge when prerequisites have been met; the opportunity of participating in literary work in the three literary societies; and the benefits of college environment and associations.

Teachers' Normal Commercial Training

The Commercial Teachers' Normal Course, outlined hereafter, meets the present legal requirements for accrediting, and the School is authorized to announce that the State Department will recognize all graduates and will grant, without further examination, a four-year provisional certificate to teach commercial subjects in the public high school and educational institutions.

Short Course in Bookkeeping

FIRST QUARTER		SECOND QUARTER		THIRD QUARTER	
Accounting 1.	5	Accounting II.	5	Com. Arith.	5
English I.	3	Bus. English	4	Accounting III.	5
Economic Hist.	3	Typewriting II.	2	Salesmanship	3
Rapid Cal.	1½	Economic Hist. II.	3	Business Org.	2
Typewriting I.	2½	Com. Law	4	Economic Hist.	3
Penmanship	2			Spelling	2
	19		18		20

Students desiring credit for Bookkeeping done elsewhere must present the books representing the work done including the blanks or sets, or prove the amount and nature of the work done, or pass an entrance examination at the discretion of the instructor. This applies to all the schedules of the School.

Short Course in Stenography

FIRST QUARTER		SECOND QUARTER		THIRD QUARTER	
Stenog. I.	5	Stenog. II.	5	Stenog. III. and Typing	5
Typing I.	2½	English II.	3	Office Pract.	2
English I.	3	Typing II.	2½	Com. Corres.	4
Spelling	2	Bus. Eng.	4	Salesmanship	3
Penmanship	2	Com. Law	4	Shorthand Principles	3
Accounting I.	5				
	19½		18½		17

Two Year Course in Commerce

(Rank—Graduate in Commerce. Prerequisite:
A high school education.)

FIRST YEAR

FIRST QUARTER		SECOND QUARTER		THIRD QUARTER	
English I.	3	English II.	3	Accounting III.	5
Economic Hist.	3	Economic Hist. II.	3	Economic Hist. III.	3
Accounting I.	5	Accounting II.	5	Salesmanship	4
Rapid Cal.	1½	Commercial Law	4	Commercial Arith.	5
Penmanship	2½	Elective	3	Bus. Org.	2
Spelling	2		18		19
	17				

SECOND YEAR

FIRST QUARTER		SECOND QUARTER		THIRD QUARTER	
Accounting IV.	5	Stenography II.	5	Stenography III. with Typewriting and direct Dictation	5
Stenography I.	5	Typewriting II.	2½	Commercial Correspondence	4
Typewriting I.	2½	Business English	4	Office Practice	2
Modern Language	5	Modern Language	5	Modern Language	5
	17½		16½	Shorthand Principles	3
					19

Economics may be substituted for Modern Language with consent of the Director.

Machine Bookkeeping and Calculator courses may be substituted for Accounting IV.

100 hours are required for graduation. Students having completed part of this work in high school must take an equivalent number of hours of college work to be selected by the Director.

Students pursuing the Two Year course are advised to arrange for remaining steadily at the work for six successive terms, if possible beginning with the Fall quarter.

Commercial Teachers' Normal Course

(Diploma—Graduate in Pedagogy in Commerce. Prerequisite: Graduation from a first grade high school or its equivalent.)

FIRST YEAR

FIRST QUARTER

Educational Psychology	2
Accounting I.	5
Penmanship	2½
Rapid Calculation	1½
Business English	4
	15

SECOND QUARTER

Educational Psychology II.	2
Accounting II.	5
Commercial Arithmetic	5
Commercial Law	4
	16

THIRD QUARTER

Educational Psychology III.	2
Accounting III.	5
Com. Correspondence	4
Salesmanship	4
Business Org.	2
	17

SECOND YEAR

FIRST QUARTER

Principles of Secondary Education I.	3
General High School Methods	3
Stenography I.	5
Typewriting I.	2
Accounting IV.	3
	16

SECOND QUARTER

Principles of Secondary Education II.	3
Special Methods in Teaching Bookkeeping	3
Stenography II.	5
Typewriting II.	2
Advanced Accounting and Auditing	2
Professional Elective	3
	18

THIRD QUARTER

Practice Teaching	5
Special Methods in Teaching Stenography	3
Stenography III. with Typewriting	5
Observation	2
Secretarial Work	2
	17

One hour class-room exercise, five days the week, on work previously prepared, counts 5 credit hours.

One hour instruction on the laboratory plan, five days the week, counts 2½ credit hours.

Length of class-exercises, fifty-five minutes.

Maximum number of hours permitted a week, eighteen; minimum, fifteen.

Description of Courses

Accounting I. This course, planned for beginners in Accounting, gives the student the fundamental principles of bookkeeping. He becomes acquainted with a variety of books used by a single proprietor conducting a retail business. Offered each quarter.

Accounting II. This is a partnership course, introducing features used in a modern office; the budget system is presented. Open to all students having completed Accounting I., or its equivalent. Offered each quarter.

Accounting III. A theoretical and practical course, dealing with the questions of the modern corporation. Special column corporation accounting books are used in connection with the Cash Journals. (Budget System). Offered each quarter.

Business English. A thorough course in practical business letter writing, including postal and general office information. Required in all courses.

Commercial Correspondence. A continuation of work begun in Business English, with emphasis on collection, follow-up, adjustment, sales, credit and form letters.

Spelling. Regular and systematic drills are given in written and oral spelling in all courses. Students are required to take these drills and pass satisfactory examinatinos.

Advanced Arithmetic. Classes in advanced Arithmetic are formed in the College of Education in which students pursuing the short courses of the School of Commerce take a thorough review of that subject at the beginning of the course.

Commercial Arithmetic. Emphasis is placed on the solution of all kinds of problems met in transaction of business. Thorough from beginning to end.

Rapid Calculation. Drill in speed and accuracy in figures. The training in such that a student in carrying out extensions in invoices and statements, and computing discounts, is able to do it in large part mentally.

Commercial Law. The essentials of law from a business standpoint so presented as to enable one to know and defend his rights.

Shorthand. Thorough instruction in the principles by both individual and class methods, followed by practice in receiving dictation covering all lines of business, with speed, accuracy, phase and word-sign drills, until the student is able to do practical office work.

The Gregg System is taught to all beginners. Those having learned the principles of another system, if able to take dictation, are allowed to enter the dictation classes and write their own systems.

Typewriting and Multigraphing. All students pursuing regular courses in the School of Commerce are required to take training in the operation of the typewriter. The Touch system is taught, the instructor supervising the work during every period. Drills are given in every phase of the work required of typewriters.

Typewriting is required to be done in the Typewriting Department. Those taking typewriting elsewhere must present their papers for grades and take examinations, for which a fee of $4.00 is charged.

Students deformed in hands or arms are permitted to elect an equal amount of instruction in some other subject with the approval of the Director.

Secretarial Duties. Practical training in secretarial work, including the performance of these duties, under direction of the instructor for the Deans of the University, Executive Secretary and others requiring the service of secretaries from time to time.

Penmanship and Lettering. The Zaner system of writing is used, with the advantage of modern methods of instruction. The writing is easily read, rapidly written, simple in forms, natural in slant, easy of movement, and pedagogically taught.

All students in the School of Commerce are admitted to the classes in busines writing without extra charge.

Lettering, including display cards, price tickets, decorative designs, etc., is taught to students desiring this kind of instruction.

Machine Bookkeeping. With a Burrough's Bookkeeping Machine students are trained in the Mechanical Bookkeeping systems, which are rapidly supplanting pen and ink methods in thousands of banks and business offices of the country.

Calculating Machine Work. The school is equipped with a battery of Burroughs Calculators. These machines are used in offices of thousands of business concerns for handling all kinds of figure work.

Without previous business experience of any kind students are able to become expert Calculator operators after a very brief course of study.

Professional Subjects in Education. For those preparing to teach commercial subjects. Principles of education, history of education, educational psychology, school management, school law, general and special methods, observation and practice teaching, and such other subjects as are required by the State Department of Public Instruction. For detailed description, see College of Education.

College of Law Subjects. Sales, contracts, partnership, agency. See College of Law.

Liberal Arts Subjects. Psychology, Sociology, Economics, Spanish, German, French. See College of Liberal Arts.

Pre-Commerce Course, see College of Liberal Arts.

TUITION—PENMANSHIP

Ornamental penmanship, pen drawing, card writing and show card writing, one hour per day, per quarter------------------------$4.50

General penmanship free to students of all departments.

All students in the School of Commerce are admitted to courses in the College of Liberal Arts without extra charge, if the prerequisites to such courses have been met.

For further information regarding tuition and fees of this department see Expenses, earlier pages of this bulletin.

A. D. JUILLIARD SCHOOL OF MUSIC

FREDERIC THOMAS KILLEEN, DIRECTOR

Aim

The music department of the Ohio Northern University stands ready to give solid, fundamental training in the various branches and to advance its students to a graduation creditable to them and to the University. The school is equally suited to those specializing in music and to those desiring to avail themselves of certain of its advantages, while following some other line of university work.

Equipment

The lower floor of Music Hall is used for teachers' studios, a reception room and a small recital hall. The upper floor is given over entirely to pupils' practice rooms. They are well lighted, heated and ventilated and equipped with pianos of standard make.

Lehr Auditorium, equipped with a grand piano and a new pipe organ, furnishes an excellent place for public recitals and concerts.

DEPARTMENTS AND COURSES

Voice

First Year. A thorough knowledge of breathing and breath control; exercises in breathing and tone placing; in agility and relaxation of muscles; Ferdinand Sieber's eight measure studies and the ten stuies, Op. 44-49; simple songs, carefully selected to assist the pupil in conquering his difficulties.

Junior. Exercises in agility, uniting of the tones; the swell, mezzo voce, embellishments; studies in the Masterpieces of Vocalization, which is a graded series of vocal studies selected from the works of all the great masters of singing; songs of suitable grade.

Senior. Advanced exercises in agility covering all kinds of scales and chords in both major and minor; mezzo voce, trill; exercises for strengthening the voice. Advanced work in the Masterpieces of Vocalization.

Throughout the course carefully selected songs and arias from the best American, English, French and Italian writers are used. While songs in foreign tongues are often taught in the language in which composed, special care is taken to give the pupil a clear and intelligible enunciation of the English language.

It is advised that voice pupils study French and Italian.

Pianoforte

Instruction in piano playing involves a special adaptation to the needs of the individual pupil. A minute study of each student's deficiencies and previous habits of work is made and technical studies and selections best adapted to his needs are given him. Music is a means of intellectual culture and artistic enjoyment; the works of the best masters are therefore employed through all grades.

First Year. Bach, Little Preludes. Two-part Inventions. Kuhlau Clementi Sonotinas. Schools of Velocity by Berens, Czerny, etc. Jensen and Cramer Etudes. Doring Octave Studies. Sonates by Hayden, Clementi, Mozart, Beethoven, etc. Selected Pieces.

Junior. Bach, Three-part Inventions. Preludes and Fugues, Well-tempered Clavichord. Clementi's Gradus ad Parnassum, Czerny, Op. 740. Sonates by Mozart and Beethoven. Compositions by Mendelssohn, Schubert, Grieg, MacDowell, etc.

Senior. Daily Studies, Czerny. Octave Studies, Kullak. Solo works of greater difficulty by Schuman, Chopin, Liszt, Henselt, Mosz kowski. Concertos by Mozart, Hummel, Mendelssohn, St. Saens, Grieg, etc.

Courses for Children. The object of these courses is to induce parents to send their children to school at an early age, where they can be under competent instruction from the start, and where they may be assured that no time will be lost in entering upon their advanced work.

The policy of the school throughout is not to adhere strictly to any one so-called "method"; the instructors, after careful study, have selected the best features in various methods, and offer to the students a course of training unexcelled in any conservatory.

It is the endeavor to make the study of piano interesting to the child and to keep practice from becoming mere drudgery. High ideals are set before him and the foundation is laid for a broad musical knowledge.

Organ

The courses of study provides for thorough training in preparation for church and concert work. The course has been arranged to give a knowledge of the French schools of organ music through the study of the works of the best composers in this particular school.

First Year. Stainer's Organ Primer. Bach Chorales. Studies by Merkel and Whiting. Easy Hymns.

Second Year. Rheinberger Trios. Eight Short Preludes and Fugues by Bach. Nilsson Pedal Studies. The easier pieces by Guilmant, Dubois, Batiste, Faulkes, Lemare and others. Hymns of any difficulty.

Junior. Trios by Bach. Preludes and Fugues by Bach. Chorale Preludes, Sonates by Mendelssohn. Pieces ob medium difficulty by Guilmant, Dubois, Gigout, Widor, Lemare, Hollins, etc.

Senior. Preludes and Fugues, Books III. and IV., Bach. Sonates by Guilmant, Gigout, Thiele, Lemmens.

Violin

First Year. Violin methods of Polanaski, Schraedick and DeBeriot; Etudes of Alard and Kayser; O'Senick, School of Bowing Technique; Solos by Dancla, Sitt, Bohn, Seity, et cetera.

Junior. Etudes of Blumenstengel, Mazas, Dont; Technique Prepartoire of Sevcik; Concertos of DeBeriot, Viotti, Krentzer; Solos, Obertass of Wienianiski, Andante and Scherzo of David, Ballade et Polanaise of Vieuxtemps, Russian Airs of David.

Senior. Etudes of Kreutzer, Fiorillo and Rode; Techniqual Studies of Sevcik and Schraedick; Concertos of Bruch, Spohr, Mendelssohn and Mozart; Sonatas of Handel and Beethoven; Solos, Zigennerfeisen of Sarasate; Marzurka of Musin; Romances of Beethoven; Suite of Sinding.

Theory, History and Ear Training

The Course in Theory is twelve weeks long, classes reciting twice a week. It includes the elements of Acoustics and Tone Quality; a description of the Orchestra and its Instruments; Accent, Rhythm and Tempo; Outlines of Motive Transformation and Thematic Treatment; Explanation and Analysis of Musical Form; Textbook, "Theory of Music" by Louis C. Elson; the text is supplemented by work in other texts and additional analysis of form.

The Course in Ear Training is twenty-four weeks long, and is a requirement of all first year harmony students. In this class the pupil is taught to recognize by ear and express in writing, rhythms, intervals, melodies, chords, chord progressions and modulations.

The work is carefully graded from the simplest studies in the major scale to those involving difficult problems in both rythm and intervals. In general, the course follows the textbook, "Ear Training" by A. E. Heacox.

The Course in Musical History is thirty-six weeks long, beginning with the fall quarter or at other times if a sufficient number desire it. Classes meet twice a week.

The aim of the course is to trace the art of music from its beginning to its present date. Much time is devoted to the lives of the greatest composers and to a careful study of representative works of each. Due consideration is also given to the development of the larger forms. The text used is "History of Music" by W. S. Pratt and this is supplemented by letters and collateral reading.

Harmony

The text used in this course is "Lessons in Harmony" by Heacox and Lehmann, supplemented with collateral texts and reference books. The four quarters of work in this subject required for graduation are as follows:

First Quarter. A thorough knowledge of keys, scales, signatures, intervals, and triads gained by frequent oral and written drill. Simple part writing from given bases and sopranos. Playing of cadences at the piano.

Second Quarter. Dominant and supertonic seventh chords. Modulation begun. Dominat ninth. Other chords of the seventh. Writing of original hymn tunes.

Third Quarter. Modulation to nearly related keys. Advanced studies in secondary seventh chords. Chromatically altered chords.

Fourth Quarter. Modulation to remote keys. Enharmonic changes. Suspensions, retardations, approgiaturas, anticipation, passing tone, embellishment, pedal point.

Counterpoint

Simple Counterpoint in two parts, in all species and combinations. Three part counterpoint in first, second and third species. Completion of three part Counterpoint; for part Counterpoint; Imitation. The textbook used in Counterpoint is "Simple Counterpoint" by F. J. Lehmann. Prerequisite: Harmony I. II. III. IV.

Harmonic Analysis

The one quarter of work of this subject required for graduation is devoted to a study of the text "Harmonic Analysis" by F. J. Lehmann.

GRADUATION

To finish any of the courses (Voice, Piano or Organ) with credit usually requires four years of work, the exact time depending upon the talent and industry of the pupil. No pupil is allowed to finish with fewer than two lessons a week during the senior year. A diploma is awarded upon the satisfactory performance of a public recital and the completion of work indicated in the following outline:

Voice. Harmony, 3 quarters; Musical History, 3 quarters; Theory, I quarter; Ear-Training, 2 quarters; enough Piano to play accompaniments.

Piano. Harmony, 4 quarters; Harmonic Analysis, 1 quarter; Counterpoint, 1 quarter; Musical History, 3 quarters; Theory, 1 quarter; Ear-Training, 2 quarters; Voice or Violin, 3 quarters.

Organ. Harmony, 4 quarters; Harmonic Analysis, 1 quarter; Counterpoint, 1 quarter; History of Music, 3 quarters; Theory, 1 quarter; Ear-Training, 2 quarters; 3 quarters Voice 3 quarters; creditable knowledge of Piano.

Violin. Harmony, 4 quarters; Harmonic Analysis, I quarter; Counterpoin, 1 qaurter; History of Music, 3 quarters; Theory, 1 quarter; Ear-Training, 2 quarters; Piano, 3 quarters.

Post Graduate Work given in all departments.

TEACHERS' COURSE

This course is especially for those pupils who are not gifted as performers but are qualified to teach. Those completing the Teachers' Course are not required to give a public graduating recital, but will render a suitable program at one of the Tuesday evening recitals.

The theoretical subjects for this course are the same as for the diploma course, and in addition the student will be required to take nine hours pedagogical work.

PUBLIC SCHOOL MUSIC

Supervisor's Course

Diploma: Graduate in Public School Music

FIRST YEAR

Fall Quarter

Elements of Music	3
College English I.	3
Introductory Psychology	2
History of Music	3
Singing	2
Piano	2
Physical Training	1
Chorus	1

Winter Quarter

Elements of Music	3
College English II.	3
Educational Psychology	2
History of Music	3
Singing	2
Piano	2
Physical Training	1
Chorus	1

Spring Quarter

Elements of Music	3
College English III.	3
Educational Psychology	2
History of Music	3
Singing	2
Piano	2
Physical Training	1
Chorus	1

SECOND YEAR

Fall Quarter

Advanced Singing	2
Advanced Piano	2
Harmony	2
Class Management in Music	2
Methods in Pub. School Music	3
Principles of Teaching	3
Observation and Practice	2
Chorus	1

Winter Quarter

Advanced Singing	2
Advanced Piano	2
Harmony	2
Course of Study and Class Management	2
Methods in Pub. School Music	3
Principles of Teaching	3
Observation and Practice	2
Chorus	1

Spring Quarter

Advanced Singing	2
Advanced Piano	2
Harmony	2
School Administration	2
General Methods in Music	3
History of Education Modern	3
Observation and Practice Teaching	3
Chorus	1

RECITALS

Pupils' Recitals. Pupils' recitals are held usually once a week to enable the student to gain confidence and exhibit the progress he has made.

Faculty Recitals. At intervals the faculty of the College of Music presents a program of such nature as to further the education and standards of the students.

Artists' Recitals. By means of these recitals the pupils come in contact with the great musical personalities and hear the best music, well performed.

MUSICAL ORGANIZATIONS

Choral Society. The Choral Society is made up of both university students and townspeople and is open to all who love good music. The society meets every Monday evening that school is in session during the first three quarters. The fees charged are nominal. The society aims to give two public performances each year.

Men's Glee Club. A glee club of twenty-four voices is organized, for the purpose of giving home concerts and touring the state each year.

Girls' Glee Club. This club is organized to learn the best in choral works written for female voices, and to give concerts each year.

Orchestra. A large orchestra is being organized to take up standard works of the great composers, and to play at the concerts of the Choral Society.

Band. A splendid band under the direction of Sig. Michael Mazzula is maintained, affording an opportunity for study and practice to students playing a brass or reed instrument.

Choirs. Choir work is of marked value in a musical education. All advanced voice students should take advantage of its benefits.

The churches of the town welcome students to their choirs.

RUDIMENTS AND SIGHT SINGING

A course in Rudiments and Sight Singing is given twice a year—in the fall quarter and in the summer quarter. The class meets twice a week and is free to all university students.

TUITION

Voice, Piano, Organ or Violin, quarter of twelve weeks, two lessons a week	$22.00
One lesson a week	14.00
For either of the six-weeks summer terms, Voice, Piano, etc., two lessons a week	14.00
One lesson a week	8.00

Children's Department

Piano, quarter of twelve weeks, two lessons a week	$16.00
One lesson a week	9.00

Class Lessons

Harmony, per quarter	$7.50
Counterpoint, per quarter	7.50
History of Music, per quarter	7.50
Theory of Music, per quarter	7.50
Ear Training, per quarter	7.50

EXPENSES

Piano rent, one hour a day, per quarter	$ 2.50
Rent of Pipe Organ for practice, one hour a day per quarter	12.00

These rates are for lessons by the quarter only. Single lessons are more.

Pupils registering within the quarter are changed for one lesson more than is given them.

SCHOLARSHIPS

Friends of the institution have made three music scholarships available. One of these is given by Mrs. Avanell C.

Stambaugh. The name of the donor of the other two is withheld by request. The award is made by the President of the University and the Director of the School of Music. Preference is given to those who wish to take up the teaching of music.

GRADUATION FEES

Diplomas are awarded to students completing recital courses in Voice, Piano, Organ or Violin. The graduation fee is $7.00.

Certificates are awarded to students completing the Teachers' Course in any of the above subjects, and to those completing the course in Public School Music. The graduation fee in these courses is $2.00.

REGULATIONS

1. All tuition payable in advance.
2. Lessons lost with reasonable excuse will be made up where pupil has given teacher twenty-four hours notice of intended absence.
3. Credit will be given for work done elsewhere, the pupil being permitted to enter the grade for which he is prepared.
4. Practice rooms in the Music Building are provided for non-resident pupils.

REFUNDING

See earlier page of this catalogue.

SCHOOL OF AGRICULTURE

ANDREW SCOTT STAUFFER, DIRECTOR

Equipment

The Department of Agriculture, established in 1909, after having been closed for "the period of war," was reopened in September, 1919.

The University possesses a farm of ninety acres, conducted under modern principles of management, and has an equipment of modern agricultural machinery, including a Fordson tractor.

In view of the many soil formations of the region and the crops to which the University farm and the locality in general is devoted, soil and crop production can be very advantageously studied.

The horticultural department has a **commodious experimental greenhouse** just completed, which is stocked with the varied and rare plants for horticultural and biological instruction. Within a few blocks of the University are some of the largest greenhouses in the country, covered by 50 to 75 thousand square feet of glass. They are devoted to the raising of flowers, vegetables, the cultural operation of which the classes systematically observe and study.

The University library has upon its table the important current live stock literature, while the traveling library of the state supplies the institution with numerous volumes upon animal husbandry. Bulletins of experiment stations and of the United States Department of Agriculture, including the year book of that department and the works of the Bureau of Animal Industry, may be found on the library shelves.

Courses Offered

The University offers only those courses in which it has ample laboratory facilities for thorough teaching. For this reason the School of Agriculture offers accredited instruction only for the first two years of a four year course, paralleling in these two years the curriculum of leading state agricultural colleges. Students are advised to complete their last two years in a State University, which by reason of superior technical facilities for specialized courses, is enabled to serve the student more advantageously.

Schedule

See Liberal Arts Section.

SCHOOL OF RELIGION

Matrona Angelo Burris, Director

SCHOOL OF RELIGION

The purpose of this school is to aid in the rescue of the truth, which results in the restoration, deepening and broadening of the spiritual in life; the interpretation of the proper place of the secular in its relation to life; and the final interpretation of all things in terms of the Christ-life in the individual and social life.

Philosophy was once religious. Then it became skeptical. Afterwards it again became religious. Once more it lapsed into scepticism. For some time, recently, the tendency has been for it to return to religion and Christianity, although it has scarcely known how to do so, or really known what constitutes Christianity.

It is thus seen that philosophy was anciently social, safe, and unified, but it later drifted to extreme individualism, or anarchy of thought. Then came Christianity tempering philosophy for centuries. Now the problem is to once more redeem it from anarchy; to try to convince the intellects of men that the only solution for the terrific and threatening modern conditions is a return to Christ. Great industrial leaders and statesmen have recently declared, in surprising numbers, that the only hope of saving our civilization is to be found in getting 'Back to Christ," but they have not given us a system of thought or philosophy that will convince men's intellects of the necessity of Christ in modern life, nor a method of Chritianizing the social, political and industrial orders.

Our purpose is to make this a most efficient and practical spiritual training school for the study of these problems.

COURSES OF STUDY

See Liberal Arts Section.

SCHOOL OF EXPRESSION

Mae Deming McCoppin, Director

Introductory

Mrs. McCoppin is ably assisted by Major A. B. Cliffe Deming, M.A., B.O. Major Deming is a graduate of the Emerson College of Oratory, Boston, Mass., and Ohio Northern University. He has also had many years experience in teaching and platform art.

Special in Courses IV, V, VI and VII.

Aim

The aim of this school is to prepare men and women for fuller service in public speaking, whether as teachers, readers, lectures, preachers or lawyers, and also to meet the need of those who realize the general cultural value of the study of Expression. For this reason, expression is taught, not by imitation, but by the mastery of definite laws in such a way as to bring out the individuality of the student.

In selecting an institution for development in expression, the method of teaching employed deserves careful consideration. The best instruction is founded upon nature's method of causing expression—the mental process. Well established laws of psychology and pedagogy are employed, securing a steady "growth from within". What is learned here will not have to be unlearned later. For insincerity and affectation which receive justifiable criticism, there is substituted fuller appreciation of literature and aid in creating a desire to present these new found beauties in a true spirit of service.

The fact that the School of Expression is a part of the Ohio Northern University gives its students many advantages that come from university residence, participation in various college activities and opportunity of pursuing other studies with their expression course. Students in other courses can also take any part of the expression suited to their needs, after consultation with the Director of Expression.

Courses

The courses may be grouped under two general classes.

A. **General Culture**—for those desiring to meet the demands of today's social intercourse. Sight Reading, Mythology, Voice Training, Breathing, Physical Culture, Literary Interpretation of Prose and Poetry, Extempore Speaking, Dramatic Training, Pantomine, Gesture and 55 Private Lessons.

B. Professional Culture—for Teachers, Platform Readers, Public Speakers, Clergymen, Lawyers, in fact, all who aim to profit by any form of Speech Arts. This course includes all subjects under the first course and Theory in Preaching and Teaching, School Management, Composition and Delivery of Orations, Forensic Oratory, Argumentation, Debate, Vocal Physiology, Correction of the Faults of Speech, Plot, Character Study and interpretation of Merchant of Venice, As You Like It, and Hamlet, with preparation and presentation of scenes for criticism, Platform Programs, Normal Work, in all departments and 90 Private Lessons.

1. **General Culture.** To meet the needs of those who wish to extend the sphere of their influence.

2. **Public Readers.** To develop students to meet the demand for the various kinds of entertainment; an enjoyable and profitable profession.

3. **Teachers of Expression.** Teachers with a mission are needed in every locality and they make the lives brighter of all who come under their influence.

4. **Public Speakers.** This course is to develop original thinking and persuasive presentation in the presence of an audience. It is especially helpful to Preachers, Lawyers, Teachers, and Lecturers but is so arranged as to meet the present day needs of all who desire or are required to speak before others.

5. **Teachers of Public Speaking.** This course includes parts of Courses I, II, III and all IV. It is to supply the demands of Y. M. and Y. W. C. A's, High Schools and Colleges.

The equivalent of "College Entrance Requirements" is necessary to enter this course.

6. **Dramatic Art.** Dramatic Construction, characterization and stage business are studied from the standpoint of interpretation. Plays are presented before the entire student body. Membership in the Dramatic Club is necessary for this course.

7. **Dramatic Coaching.** This course includes parts of Courses II, III, IV, V and all of VI. It is to meet the increasing demand for competent coaches for amateur plays by High Schools, Literary Clubs, etc.

8. **Fencing.** Courses may be had in either Foil or Sabre Fencing. This is the knightliest of sports, combining exercise with amusement. The body acquires ease, grace and suppleness, while the judgment, eye and nervous instinct are thoroughly cultivated. The instructor, Major Deming, in addition to his military experience, has had special instruction from the foremost exponents of French and Italian methods.

9. **Electives.** Those not desiring to register in any prescribed course may, with the advice of the Director of Expression, select parts of various courses, either in class or private lessons, to suit their needs.

NOTE: Students completing any of the teachers' courses are required to do practise teaching under supervision.

Children's Classes

On Saturday afternoon and at other times, in vocal training, reading and recitation.

Public Speaking

Practical courses are given to speakers to develop the power to think when on their feet, and secure not only a vocabulary, but control of voice modulations and pantomine actions. The student is assigned studies to awaken a true ideal of oratory. These develop mental power and grasp, logical method, and control of feeling as well as of voice and body.

Problems in Expression

Short passages, sentences, or phases, original and selected, are rendered by students to stimulate the creative actions of mind, body and voice in natural unity.

Courses: 1. Problems in Reading. 2. Voice Problems. 3. Harmonic Problems. 4. Pantomimic Problems. 5. Dramatic Problems. 6. Problems in Speaking.

Recital and Contests

The school offers the students many opportunities of appearing before public audiences as readers, orators, debaters and public speakers in general. A goodly number of programs are arranged every year in the University and town, to all of which students are eligible. In addition, the students are expected to appear in frequent recitals given by the School of Expression.

Certificates and Diplomas

Those satisfactorily completing the One Year General Culture Course will be granted a certificate to that effect. Those satisfactorily completing the Two Year Professional Course will be granted a Diploma of Graduation by the University. The degree of Bachelor of Oratory is granted to those completing a three-year course, provided they hold a high school diploma or its equivalent.

EXPENSES

Tuition

Class Lessons, per quarter	$15.00
Private Lessons, per quarter (15 lessons)	15.00
Class and Private Lessons and Physical Culture	30.00
Private Lesson, single lesson	1.25
Textbooks, stationary, et cetera, per year, about	5.00
Physical Culture, per quarter	7.00

PHYSICAL EDUCATION AND INTER-COLLEGIATE ATHLETICS

J. OTTO NEWTON, DIRECTOR

DEPARTMENT OF PHYSICAL EDUCATION AND INTER-COLLEGIATE ATHLETICS

Dr. J. Otto Newton, Director

Grace Norman Rosser and Ralph L. Stewart, Assistants

Classes in physical education and gymnasium practice will be organized separately for men and women.

This work seeks to develop muscular co-ordination, health habits, habits of exercise and capacities for leadership and ethical qualifications for departmental work administration.

The department also aims to provide a course in physical education and athletic coaching sufficiently comprehensive to meet the needs of those who wish to qualify themselves for positions as special instructors in the public and secondary schools and colleges. Y. M. C. A., Y. W. C. A. and the larger city play ground associations have already accredited the work of this department by accepting for responsible positions, students who have completed the courses offered.

It is required that the courses for advanced classes be open to such students only as have completed the elementary courses. The entire department is graded systematically and progressively.

Course No. 1

Elementary Physical Education

Two hours a week. One hour credit.

Correction of posture and physical defects, prescribed exercises for definite physical inefficiency and deficiency and fundamentals of theory and practice in calisthenics and recreational play ground activities.

Course No. 2

Advanced Course

Two hours each week. One hour credit.

Advanced theory and practice, gymnastic nomenclature, apparatus work and practical graded leadership. This work seeks to develop muscular co-ordination, health, habits of exercises, capacities for leadership and moral qualifications for departmental administrations.

Course No. 3

Departmental Administration and Organization

Three hours each week. One hour credit.

This teachers' course will deal with personal hygiene, physical diagnosis, advanced gymnastics, theory and practice of teaching physical education.

In addition to the course suggested above this department will have general supervision of the organization of the inter-class, inter-mural, inter-society, and inter-fraternity athletics. A physical examination will be given each student at the beginning of each year and personal efficiency tests will be given one or more times each year. In order to secure a passing credit in this work, a definite advancement must be noted as the results of these tests. Courses one and two are required of all students in the Ohio Northern University before they may become eligible to any degree. Course three is elective and open to those who have completed courses One and Two.

Inter-Collegiate Athletics

Ohio Northern has been a member of the Ohio Conferences ot Colleges in Athletics, commonly known as the "Big Six," since 1916, and an enviable reputation has been gained and maintained upon the "Simon Pure" basis of the quality of her teams and the character of her representatives in inter-collegiate athletics. In football, basketball and baseball, she has invariably been rated among the stronger colleges of the State, and just now the outlook for the future is most promising. A new athletic field of ample proportions provides equipment and space for a good diamond, football gridiron, tennis courts, and running track. The equipment of the varsity teams and the addition of assistants to the coaching staff insures a careful training and development of the "Varsity" in all sports. In fact, Ohio Northern offers the widest opportunity possible for outdoor sports, and takes just pride in maintaining varsity teams of the highest order.

Courses in Varsity Coaching and Physical Education

During the fourth quarter, commonly known as the summer quarter, the department of physical education offers six weeks course in coaching in various sports: Football, basketball and track. These courses will cover the fundamentals of each sport; team training, massage and care of injuries, the science of building plays, discussion of the systems now in use by the major coaches in the country, in addition to this fundamentals of physical education and practical work necessary to prepare men and women to handle this department in all high schools and graded schools. This entire course will be under the supervision of the director and his assistants. Fuller specifications as to the detailed work will be furnished upon application.

HONORARY DEGREES

Donaldson, Clara R.	(Ped. D.)	Kenmore, O.
Epley, J. F.	(M.A.)	Silver City, N. Mex.
Greenlee, Elmer E.	(D.D.)	Charleroi, Pa.
Lynch, Francis Napoleon	(D.D.)	Marietta, Ohio
Meck, David Channing	(LL. D)	Cleveland, O.
McDowell, William Fraser	(LL. D.)	Washington, D. C.
Olive, James F.	(D.D.)	Defiance, O.
Ryder, H. E.	(M.S.)	Chardon, O.
Seymour, Arthur Halleck	(Ped. D.)	Aberdeen S. Dak.
Shade, Robert	(Ped. M.)	Kenmore, O.
Sullivan, Martin Elsworth	(M.S. in Ped.)	Columbus, O.
Simmons, George E.	(D. Sc.)	Orono, Maine
Turner, Mary Houser	(M.A.)	Ada, O.
Wilkins, Viola B.	(M.A.)	Delta, O.
White, James Alexander	(LL. D.)	Columbus, O.
Watkins, Edgar	(LL. D.)	Oglethorpe, Ga.

CLASS OF 1922

President, Glenn Cripps
Vice President, P. M. Huntsman
Secretary, Geneva Basil
Treasurer, Dwight Davis

COLLEGE OF LIBERAL ARTS

Case, Charles	(A.B.)	Alexandria, O.
Davis, Dwight	(B.S.)	Celina, O.
Hawver, Harley D.	(A.B.)	Antwerp, O.
Leist, James H.	(B.S.)	Circleville, O.
Moy, Hymn	(B.S.)	San Francisco, Calif.
Shank, Ruth	(A.B.)	Ada, O.
Walker, G. C.	(A.B.)	Wapakoneta, O.
Poling, Paul	(A.B.)	Ada, O.

COLLEGE OF EDUCATON

Bell, Hazel B.	(Grad. in Ped.)	Ada, O.
Basil, Geneva	(Grad. in Ped.)	Scott, O.
Basil, Velma	(Grad. in Ped.)	Scott, O.
Betzel, Rosa	(Grad. in Ped.)	Celina, O.
Bowen, Elsie	(Grad. in Ped.)	Sidney, O.
Bowyer, Fawn	(Grad. in Ped.)	Elida, O.
Brown, Gladys	(B.S. in Ed.)	Lima, O.
Conklin, Hazel	(Grad. in Ped.)	Radnor, O.
Collier, Faye C.	(B.S. in Ed.)	Ironton, O.
Dehus, Delores	(Grad. in Ped.)	Chillicothe, O.
Ewing, Anna	(Grad. in Ped.)	Ada, O.

Ehrnman, Aldine	(Grad. in Ped.)	Elida, O.
Fast, Nellie	(B.S. in Ed.)	Haviland, O.
Gallapoo, C. R.	(B.S. in Ed.)	Ada, O.
Hanna, Essie	(Grad. in Ped.)	DeGraff, O.
Hoel, Gladys	(Grad. in Ped.)	Montezuma, O.
Morris, Evelyn	(Grad. in Ped.)	Lima, O.
McDonald, Kathleen	(Grad. in Ped.)	Coshocton, O.
McElroy, Helen	(Grad. in Ped.)	Ada, O.
Mullet, Datha	(Grad. in Ped.)	Continental, O.
McFadden, Fern	(Grad. in Ped.)	Shreve, O.
Miller, Owen C.	(B.S. in Ed.)	Iuka, Miss.
Rowland, Leefe	(Grad. in Ped.)	Upper Sandusky, O.
Snider, Rae	(Grad. in Ped.)	St. Johns, O.
Springer, Merle	(Grad in Ped.)	Martins Ferry, O.
Still, Hilda	(Grad. in Ped.)	Warsaw, O.
Thurwachter, Rema	(Grad. in Ped.)	Leipsic, O.
Woodring, Dorothy	(Grad. in Ped.)	Port Clinton, O.
Hoel, Charles	(B.S. in Ed.)	Antwerp, O.
Hallier, Luella	(Grad. in Ped.)	Danbury, O.

COLLEGE OF ENGINEERING

Angulo, M.	(B.S. in M.E.)	Calamas, Columbia
Bierman, Linn C.	(C.E.)	Harrisburg, Pa.
Cottrell, Thos.	(B.S. in M.E.)	Bradley Beach, N. J.
Coene, H. G.	(B.S. in C.E.)	New Brighton, Pa.
Cuellar, A. E.	(B.S. in C.E.)	LaPaz, Bolivia
Cobb, Don. F.	(B.S. in C.E.)	Akron, O.
Carhart, C. M.	(B.S. in C.E.)	Pittsfield, Mass.
Cummings, Lloyd	(B.S. in Ch.E.)	Rose Hill, N. Y.
Castro, Santos	(B.S. in M.E.)	Mayaguez, P. R.
Cripps, Glenn	(B.S. in M.E.)	Grayling, Mich.
Duff, R. E.	(B.S. in C.E.)	Canton, O.
Decker, B. L.	(B.S. in E.E.)	Lilly, Pa.
Dispenza, S. J.	(B.S. in C.E.)	Buffalo, N. Y.
Detlor, C. C.	(B.S. in C.E.)	Woosfield, O.
Erdman, Edward A.	(E.E.)	Augusta, Wis.
Gehr, H. W.	(B.S. in C.E.)	Waynesboro, Pa.
Greer, Robert C. Jr.	(B.S. in C.E.)	Philadelphia, Pa.
Hliton, L. S.	(B.S. in M.E.)	Springfield, Mass.
Haney, H. L.	(B.S. in C.E.)	Ada, O.
Horowitz, Theodore	(B.S. in C.E.)	New York City
Henning, Lee. R.	(B.S. in C.E.)	Weston, O.
Kille, L. A.	(B.S. in E.E.)	Salem, O.
Liano, Manual	(B.S. in M.E.)	Arecibo, P. R.
Lieska, G. F.	(B.S. in M.E.)	Oak Harbor, O.

Lorini, Hector	(B.S. in C.E.)	LaPaz, Bolivia
Lesnikowsky, F.	(B.S. in M.E.)	Smolany, Poland
Lamb, P. Y.	(B.S. in C.E.)	Hong Kong, China
Longwill, M. Floyd	(C.E.)	Montpelier, O.
Morgan, D. M.	(B.S. in C.E.)	Hazelton, Pa.
Miller, B. S.	(B.S. in C.E.)	Trenton, N. J.
Mumma, D. H.	(B.S. in Ch.E.)	Wilkinsburg, Pa.
Navidad, Jose	(B.S. in M.E.)	Agno Pangasinan, P. I.
Ogan, E. R.	(B.S. in C.E.)	Cumberland, O.
Page, Warder	(B.S. in C.E.)	Urbana, O.
Rodas, Jose	(B.S. in M.E.)	Los Piedis, P. R.
Reynolds, J. E.	(B.S. in M.E.)	Bridgeport, Conn.
Savage, P. A.	(B.S. in Ch.E.)	Blanchester, O.
Starner, A. D.	(B.S. in Ch.E.)	Big Prairie, O.
Thompson, J. K.	(B.S. in M.E.)	New Brighton, Pa.
Waterloo, V. E.	(B.S. in C.E.)	Sturgeon, Pa.
Wells, J. E.	(B.S. in E.E.)	Ada, O.
Wong, W. T.	(C.E.)	Hong Kong, China
Zugsda, George	(B.S. in Ch.E.)	Cleveland, O.

COLLEGE OF LAW

Armstrong, H. P.	(LL.B.)	Hillsboro, O.
Anzelotti, F. P.	(LL.B.)	Youngstown, O.
Behrens, F. G.	(LL.B.)	Napoleon, O.
Braunstein, Max.	(LL.B.)	New Castle, Pa.
Bauknecht, J. E.	(LL.B.)	Bridgeport, O.
Crist, W. E.	(LL.B.)	Cincinnati, O.
Fairall, L. L.	(LL.B.)	Frazeysburg, O.
Granfield, John J.	(LL.B.)	Springfield, Mass.
Graham, E. D.	(LL.B.)	Frazeysburg, O.
Isham, D. D.	(LL.B.)	Ada, O.
McVicker, B. D.	(LL.B.)	West Salem, O.
Metcalf, Verner	(LL.B.)	Marietta, O.
Monti, V. I.	(LL.B.)	Tiltonville, O.
Montville, Hurst	(LL.B.)	Ada, O.
Osmun, John	(LL.B.)	Marion, O.
Reyes, Jose L.	(LL.B.)	Manila, P. I.
Shellenberger, H. D.	(LL.B.)	Bradford, O.
Sawyer, J. V.	(LL.B.)	Circleville, O.
Sugranes, Raphael	(LL.B.)	Manabo, P. R.
Thomas, D. H.	(LL.B.)	New Holland, O.
Tidd, C. D.	(LL.B.)	Stockdale, O.
Trunk, E. F.	(LL.B.)	Akron, O.
Vinocur, Lewis	(LL.B.)	Cleveland, O.
Harper, Fowler V.	(LL.B.)	Ada, O.

COLLEGE OF PHARMACY

Beck, F. J.	(Ph.G.)	Napoleon, O.
Bossler, J. P.	(Ph.G.)	Crestline, O.
Bloom, Lawrence	(Ph.G.)	Cleveland, O.
Burke, Mary M.	(Ph.G.)	Lowellville, O.
Dowds, J. F.	(Ph.G.)	Mansfield, O.
Dennis Ross L.	(Ph.G.)	Bloomdale, O.
Devol, O. E.	(Ph.G.)	New Straitsville, O.
Erdenberger, A. B.	(Ph.G.)	Mansfield, O.
Elliott, A. P.	(Ph.G.)	Gambier, O.
Gensert, H. G.	(Ph.G.)	Cleveland, O.
Hunstman, P. M.	(Ph.G.)	Gibsonburg, O.
Hurless, D. B.	(Ph.G.)	Willshire, O.
Houser, C. R.	(Ph.G.)	Ada, O.
Holt, Chester	(Ph.G.)	Piketon, O.
Hartford, P. C.	(Ph.G.)	E. Palestine, O.
Keyser, H. E.	(Ph.G.)	Wooster, O.
Karanilian, Peter	(Ph.G.)	West Hoboken, N. J.
Koons, O. A.	(Ph.G.)	Mansfield, O.
Leiken, Harry	(Ph.G.)	Cleveland, O.
Levenson, Wm.	(Ph.G.)	Cleveland, O.
Levitt, Jack	(Ph.G.)	Cleveland, O.
Makman, Jules J.	(Ph.G.)	Cleveland, O.
Startsman, Robert	(Ph.G.)	DeGraff, O.
Verbryke, W. V.	(Ph.G.)	Lima, O.
Wohl, M. A.	(Ph.G.)	Cleveland, O.
Winters, Erma	(Ph.G.)	Fort Wayne, Ind.

SCHOOL OF MUSIC

Brown, Carrie H.	(Grad. in P.S.M.)	LaRue, O.
Dearth, LaDonna	(Grad in Piano)	Ada, O.
Weber, Walter R.	(Grad. in Piano)	Van Wert, O.

SCHOOL OF COMMERCE

Ryan, Mary Katherine	Marion, O.

SCHOOL OF EXPRESSION

Basore, Glenna	(Grad. in Exp.)	Carlisle, O.
Ingledue, Grace	(B.O.)	Harrod, O.
Fairchild, Margaret	(B.L.I.)	Ada, O.
Fox, Vida L.	(Grad. in Exp.)	Port Monmouth, N. J.

REGISTER OF UNDERGRADUATES

(Summer Quarter, May 30, 1921—Spring Quarter, 1922, inclusive)

LIBERAL ARTS

Ahlefeld, Charles	Hardin
Anspach, Eldred	Hardin
Barnes, Vera I.	Hardin
Brecheisen, Cahrles	Hardin
Baker, Margaret	Hardin
Busick, Ralph	Paulding
Carey, Carl C.	Hardin
Clark, Lyman	Hardin
Conner, J. Ries	Hardin
Cox, Dorothy	Hardin
Cransaz, Robert	France
Cox, Viola	Hardin
Coates, Robert M.	Belmont
Clayton, Genevieve	Hardin
Davis, Dwight W.	Mercer
Davison, John H.	Allen
Deming, John R.	Hardin
Detrick, Stanley A.	Hardin
Dobbins, Earl	Marion
Eibling, Elbert	Hardin
Elder, Thora	Hardin
Eversole, Lucinda	Hardin
Ferbrache, Ira R.	Holmes
Florida, Hesse	Hardin
Fallquist, Albert	Allegheny, Pa.
Freeman, Herbert	Hardin
Fusco, James	Trumbull
Faze, Yvonne	Allen
Goodman, Ben	Hardin
Gallant, Ruth	Hardin
Greer, Herbert K.	Hardin
Greer, Dorothy H.	Hardin
Guyton, Donna	Hardin
Hickman, John A.	Williams
Hover, Olive	Hardin
Howey, Lottie	Wyandot
Horn, J. H.	Highland
Hullinger, Mildred	Hardin
Howard, J. D.	Clark
Ingmire, S. M.	Hardin
Irey, Genevieve	Hardin
Jameson, F. S.	Hardin
Jones, David T.	Van Wert
Klinger, Carmen	Paulding
Klinger, Ruby	Paulding
Kepan, Joseph	Logan, Ill.
Koehler, Dwight	Licking
Karns, Frank H.	Allen
Lee, Lester	Hardin
Leist, James H.	Pickaway
Lorenz, T. E.	Litchfield, Conn.
Lyman, F. A.	Hardin
Maffett, Richard	Hardin
Mackintosh, Harold	Erie, Pa.
Marz, Clarence	Stark
Matheny, Walter	Hardin
Middleton, Lelan	Champaign
Miller, C. Stanley	Hardin
Miller, Glenn M.	Richland
Minion, Lester R.	Cook, Ill.
Moreland, L. S.	Washington, D. C.
Meister, Ethel	Belmont
Mertz, Eva	Hardin
Moorman, Hazel	Hardin
Otwell, Anna Mae	Kiowa, Okla.
Poling, Conwell	Hardin
Poling, Paul O.	Hardin
Riley, Melvin	Knox
Runkel, Luke	Hardin
Porter, William	Allen
Pond, J. W.	Van Wert
Raudabaugh, Audrey	Auglaize
Runser, Edna	Hardin
Sager, Prosper H.	Hardin
Shoup, J. H.	Armstrong. Pa.
Smith, Donald O.	Miami
Smith, Nolan	Hardin
Stephens, Raymond	Auglaize
Swisher, H. R.	Champaign
Swisher, Ralph	Williams
Stuart, Ellis	Hardin
Scott, Alice C.	Franklin, Mass.
Snyder, Edith	Hardin
Stemple, Margaret	Hardin
Storer, Thelma	Hardin
Speese, George A.	Union

Swearingen, J. F.---------Medina
Taylor, Charles B.-----Fayette, Pa.
Tracey, Fred -------------Knox
Thomas, John S.---------Belmont
Vanhorn, Luke ----------Hardin
Wagner, J. A. B ----------Gallia
Wenger, Byron -----------Stark
Whitman, S. Lee Jr.--------Darke
Wilson, Carlin ----------Hardin
Wiseman, O. M.---------Lawrence
Wilson, Foster -----------Shelby
Wilson, Ruth ------------Hardin
Whitworth, Eleanor ------Hardin
Williams, Aline -----------Allen
Wiseley, Carre ----------Hardin

EDUCATION

Adams, William ----------Marion
Ammamn, Peter -------Coshocton
Allender, A. M.----------Hancock
Armentrout, Elma --------Logan
Arn, Margie ------------Hardin
Arthur, Mabel ----------Madison
Adams, Golda -------------Allen
Andrix, Nelle ----------Franklin
Andrews, James ----------Mercer
Ayers, Hubert -----------Mercer
Alspach, Marie ---------Hancock
Black, Roy N.------------Clinton
Bailey, E. Lehr-----------Shelby
Baughman, E. A.---------Marrow
Beam, Lillian -------------Darke
Bowsher, Mabel ------------Allen
Baker, Verda ------------Hardin
Brian, Velma ----------Paulding
Barrington, Mabel ------Auglaize
Birt, Nellie M.-------------Darke
Born, Margaret ------------Allen
Blair, Gladys ----------Crawford
Boley, Chas. -------------Mercer
Bokate, Lucile -----------Ottawa
Brewer, Walter ---------Wyandot
Blatt, Alice --------------Ottawa
Briggs, Carroll ------------Allen
Blatt, Carrie -------------Ottawa
Bartlett, Bessis ---------Delaware
Blank, Emma --------------Allen
Baker, Mamie ------------Hardin
Busick Burnice ---------Paulding
Bailey, Winona ---------Auglaize
Baker, Fairy -------------Hardin
Bowers, Edith ------------Hardin
Burgett, Ruth ---------Clermont
Bowsher, Erma ------------Allen
Bailey, Ruth --------------Allen
Bowersmith, Florence -----Union
Brokate, Ople -----------Ottawa
Byerly, Treva ----------Madison
Barrick, Olive -------------Knox
Bresler, Gladys ----------Marion
Billger, Adda ----------Auglaize
Brewer, Walter G.-------Wyandot
Bailey, Basil A.------------Darke
Burgette, George W.-------Hardin
Bailey, Roscoe ------------Darke
Bame, Mabel ------------Seneca
Baransy, Eulah ----------Hardin
Beall, Florence ---------Richland
Borset, Edna -------------Hardin
Botkin, Gladys ----------Clarke
Bright, Mildred --------Hancock
Burgin, Joy L.-------------Logan
Bush, Aurelia ----------Auglaize
Boone, Catherine --------Hardin
Bowen, Mabel ---------Wyandot
Brown, Mabel ---------Paulding
Burgett, Lenora ---------Hardin
Chalfin, Homer ----------Hardin
Coey, William --------------Ross
Cotterman, D. W.----------Allen
Chambers, George --------Scioto
Cook, Marion ----------Wyandot
Cady, Lucy --------Washingtoon
Clevenger, Thelma N.-------Henry
Coate, Garnet ------------Hardin
Colter, Bernice -------Van Wert
Clark, Zona --------------Hardin
Crum, Robert -------Columbiana
Crawford, Alma --------Auglaize
Crowe, Mary -------------Scioto
Clapsaddle, Mabel -------Hardin
Cox, Mary R.----------Cuyahoga
Coats, Rebecca -----------Hardin

Chambers, Mildred	Cuyahoga
Clark, Esther	Hardin
Collins, Lavon	Hardin
Crouse, Mrs. Gladys	Wyandot
Dunson, Georgia	Hardin
Denius, Harry	Lorain
Dispennette, William E.	Licking
Diehl, Clrence	Hocking
Day, Mrs. Mae	Marian
Durkin, Ivalue	Allen
Davis, Blanche	Richland
Diehl, Laura	Hocking
Dixon, Opal	Logan
Dobbins, Hazel	Hardin
Davids, Bernice	Ottawa
Davis, Mary	Sciota
Duvall, Lula	Auglaize
Davis, Helen	Adams
Davis, Margaret	Scioto
Dillon, Mina	Seneca
DeBolt, Hazel	Franklin
Daniels, Helen	Hardin
Davenport, Helen	Hardin
Doty, Alice	Hancock
Dirmeyer, Ruth	Hardin
Dillon, Emma	Seneca
Ellison, Clarence	Hardin
Evans, Viola	Van Wert
Ewing, Miriam	Hardin
Eakin, Ellen	Pickaway
Evans, Eva	Hardin
Elwood, Mary	Ashtabula
Elwood, Nancy	Ashtabula
*Ewers, Carrie	Richland
Elder, Nova	Logan
Epley, Lucile	Hardin
Ewing, Ethel	Hardin
Elliott, Irene	Pike
Foltz, Don. A.	Hancock
Foulk, L. Edward	Paulding
Fork, Berlin	Defiance
Frysinger, Lowell	Mercer
Fawn, Ethel	Cuyahoga
Force, Emma	Wayne
Fattler, Lenna	Madison
Fackler, Fannie	Allen
Fisher, Adah	Mercer
Fisher, Opal	Hardin
Fahl, Mona	Hancock
Fulkerson, Lucy	Allen
Fisher, Fannie	Mercer
Flinn, Louise	Hardin
Fast, Annette	Paulding
Foster, Lorena	Hancock
Flemming, Donald	Richland
Foster, Walter	Van Wert
Farrow, Mary	Ashtabula
Farrow, Nelle	Ashtabula
Fisher, Vera	Van Wert
Fleck, Dorothy	Wyandot
Funk, Enid	Paulding
Garwood, Merwin	Hancock
Geiger, Ruth	Hardin
Garwood, Guy	Hancock
Germann, Stella	Van Wert
Grandstaff, H. E.	Morgan
Glenn, Helen	Pike
Goble, Clarence	Paulding
Glenn, Clare	Pike
Gamble, Frances	Van Wert
Garmon, Lavonne	Hardin
Gigandet, Mary	Shelby
Gigandet, Esther	Shelby
Grady, Teresa	Allen
Gary, H. J.	Ashtabula
Garmon, Lauren	Hardin
Huffman, Wayne	Hancock
Houpt, Lawrence H.	Wyandot
Hanselman, B. L.	Jackson
Horton, Gladys	Union
Houser, Mary	Hardin
Hughes, Mary	Putnam
Huggett, Irene	Hardin
Howard, Helen	Hancock
Hatcher, Mattie	Logan
Harter, Lottie	Champaign
Harris, Anna	Hardin
Hockaden, Edith	Scioto
Hazelbacker, Myrtle	Scioto
Hershner, Faye	Crawford
Harvey, Khiva	Hardin
Hayden, Zee	Hardin
Hecker, Twila	Wyandot
Hunsicker, Opal	Hardin
Harris, Princess	Hardin
Huf, Clara	Franklin

Hinklin, Elizabeth -------Marion
Hause, Grace ----------Hancock
Harvey, Mrs. Bertha------Hardin
Howard, Edythe ----------Clark
Harsh, Olive ------------Stark
Harper, May -----------Greene
Harvey, Mary -----------Shelby
Hammer, Frank ---------Hardin
Hay, Herbert ------------Allen
Hoberg, Walter ---Allegheny, Pa.
Herman, H. A. ---------Hancock
Henny, W. F.-----------Hancock
Halloran, Daisy -----------Erie
Hart, Welcome ------Montgomery
*Hatcher, Agnes ---------Hardin
Henry, Cleah -----------Vinton
Hover, Faye ------------Hardin
Harvey, Merrill ----------Hardin
Ivers, R. D.--------------Scioto
Ingersull, Etta -----------Union
Jones, Algia ------------Hardin
Jones, Edna -------------Scioto
Jones, Homer ------------Allen
Jackson, Dorothy --------Mercer
Jackson, C. G.-----------Mercer
Juillerat, Ida ---------Van Wert
Keysor, Edgar ---------Paulding
Kalp. D. E.----Wesmoreland, Pa.
Kinnison, W. H.----------Mercer
Kent, Earl ------------Auglaize
Kelly, Mabel ------------Hardin
Kieffer, John ----------Hancock
Klingler, Wilma ---------Hardin
Klingler, Agnes ----------Hardin
Kidwell, Mrs. M. D.-----Hancock
Kidd, Mamie -------------Allen
Kelley, Mabel -----------Hardin
Kramer, Iness ------------Allen
Knisley, Myra -------------Pike
Kenar, Charlotte --------Hardin
Kauble, Mary -----------Hardin
Killoran, Esther ----------Allen
Kilbridge, Katherine --------Erie
Kent, Lela ------------Auglaize
Kohn, Harry B.---------Paulding
Kidd. Lola ---------------Allen
Klinger, Ola --------------Allen
Klingler, Dorothy --------Hardin

Lowe, Ruth ------------Hardin
Lyons, Ralph -----------Mercer
Long, Velma ------------Hardin
Leatherman, Ruth ---------Allen
Livingston, Ralph --------Hardin
Lea, Mrs. Little -------Delaware
Long, Mildred ---------Crawford
Latham, Helen ---------Hancock
Lininger, Mary ----------Mercer
Lions, Julia --------------Allen
Leedon, Gordan ------------Pike
Ludwig, Day ------------Hardin
Latimore, Gladys --------Hardin
Lonas, Dora --------------Stark
Lytle, Hazl Ilo---------Van Wert
Lowry, Antoinette ------Wyandot
McCleary, C. W.------------Allen
Maffett, O. H.-----------Hardin
Martin, Forest ---------Franklin
Murry, Ray ------------Greene
Moore, L. D.-------------Miami
Moore, Mrs. Emma----------Allen
Mead, Irene ----------Paulding
McElroy, Madeline ------Hardin
Mohr, Susie ----------Van Wert
McCrea, Mrs. Trella ------Hardin
Miller, Ruth ------------Hardin
Meyers, Adeline -----------Henry
Marin, Jennie ---------Delaware
Matheny, Arlie ----------Hardin
Murphy, Faye --------------Pike
Martin, Mrs. Forest--------Wood
Musser, John ----------Auglaize
McCoy, Doris -------------Allen
McCoy, Dessa ----------Madison
Martin, Imogene ---------Hardin
Morrison, Helen ---------Hardin
Moore, Gertrude ----------Allen
McCleary, Fairy ----------Allen
Markley, Jane ------------Lima
Murry, Faye ------------Greene
McElwaine, Fay -----------Allen
Moore, Mrs. Lee-----------Miami
McCarty, Daniel ----------Allen
McClain, Floyd --------Wyandot
McElroy, Justin ---------Hardin
Mikesell, Homer ----------Preble
Money, Cloyd ----Randolph, Ind.

Main, Russell ------------Hardin
McCoy, Bernice ------Van Wert
McKinley, Georgia -----Jefferson
McRill, Edna -----------Hancock
McWilliams, Agnes ------Hardin
Marshall, Devona ---------Hardin
Morris, Ruth ------------Hardin
Mortz, H. E.--------------Scioto
Myers, Frances ----------Marion
Marty, Delphine ---------Hardin
McCready, Helen --------Richland
Northup, R. V. -----------Hardin
Naragon, F. R.-------------Erie
Nickell, Norma ---------Auglaize
Nickell, Dorothy ---------Auglaize
Nau, Golda --------------Hardin
Nye, Stella -------------Wyandot
Newman, Lillian -----------Scioto
Neeley, Paul -------------Hardin
Nielson, Marian ---------Cuyahoga
Newell, Anna -----------Wyandot
Ober, J. V.------------------Wood
Osgood, Ola ---------------Allen
Oberly, Frieda -----------Hardin
Owens, Clarabelle ----------Allen
Orians, Mary -----------Wyandot
Ocborn, Eva -----------Van Wert
Parker, Naomi -------------Allen
Pugh, Mrs. M. G.-----------Miami
Parks, F. E.------------Crawford
Patton, Gail -------------Hardin
Parlette, Opal -------------Allen
Pond, Velma ------------Paulding
Plummer, Mildred ---------Hardin
Piper, Fern ---------------Wayne
Parsell, Ethel ------------Hardin
Price, Georgia ------------Wood
Price, Marguerite ---------Hardin
Platt, Belle ---------------Mercer
Porter, Hazel ------------Marion
Price, Mary -----------Delaware
Pollock, Frank -----------Monroe
Parks, F. J. ------------Richland
Perfect, Mildred --------Delaware
Plummer, Phyllis ----------Logan
Pollock, Lela ---------------Allen
Pontius, Lula ---------------Wood
Quay, Catherine -------Crawford
Royer, Wilber E.------------Logan
Richey, D. Paul---------Delaware
Ryder, Harold ------------Geauga
Roush, Jeanette ----------Fayette
Roush, Josephine ---------Fayette
Ream, Anna E.-------------Hardin
Rounds, Mrs. Mae---------Hardin
Ramer, Marie ------------Hardin
Rockey, Lela -------------Hardin
Robinson, Dorothy ---------Allen
Rockwell, Zelma ----------Hardin
Rogers, Bessie -----------Mercer
Runkle, Ethyl ---------------Ross
Rose, Hope ---------------Hardin
Roberts, Anne ----------Madison
Reilly, Drusilla ------------Allen
Ropp, R. L.-------------Paulding
Reynolds, Charles H.------------ --------------Washington, Pa.
Ritchie, Dorothy -----------Allen
Rubin, Esther ----------Auglaize
Runser, Helen -----------Hardin
Runyan, Thelma ----------Shelby
Ries, Marcella -----------Hardin
Ramey, E. Vergie-------Delaware
Schilling, Henry --------Wyandot
Smith, L. R.---------------Scioto
Smith, M. C.---------Washington
Smith, W. L.---------------Logan
Sheridan, Carol -----------Marion
Schaefer, Louise ----------Hardin
Swartz, Edith ----------Wyandot
Simon, Helen ------------Putnam
Shadley, Frances ---------Hardin
Shadley, Ruby -----------Hardin
Stine, Maude -------------Wayne
Shaw, Clara --------------Logan
Sinkley, Lela Artice ----Delaware
Shoup, Eugenie --Tippecanoe, Ind.
Sprain, Goldie -----------Hardin
Slemmer, Dorothy -------Wyandot
Stauffer, Helen -----------Hardin
Sleesman, Mary ----------Hardin
Shuster, Lucile -----------Hardin
Stalter, Helen C.---------Wyandot
Stull, Vera ------------Richland
Simpson, Helen ------Tuscarawas
Stamm, Opal ---------------Knox

Smith, Edna ------------Hardin
Stang, Anna ------------Shelby
Schrader, Irene ------------Knox
Stephens, Winnie ---------Shelby
Seitz, Sherwood ----------Clinton
Sink, Francis ------------Hardin
Sleesman, George ---------Hardin
Sprague, Milton -----------Huron
Steinman, B. W.---------Hancock
Smythe, Glenn M.-------Wyandot
Saunders, A. C.----------Hancock
Sink, Lois ---------------Hardin
Slagle, Chelsea ----------Fairfield
Snyder, Anna -----------Paulding
Steiner, Marian ----------Hardin
Steinmetz, Blanche -----Wyandot
Stauffer, Gertrude --------Hardin
Schlup, Myrtle -----------Hardin
Stone, Mary Ethel-------Crawford
Tipple, Ray ------------Delaware
Terrell, C. W.---------------Perry
Trunko, Ethel -----------Marion
Temple, Alice ------------Hardin
Taylor, Ida -------------Paulding
Temple, H. S.-----------Richland
Thobaben, Ruth ------Champaign
Thomas, Neva -------------Allen
Tickle, Reah -------------Mercer
Ulrich, Geo. ------------Wyandot
Underhill, P. H.-------Allen, Ind.
Underhill, Mrs. Kathleen-------------------------Allen, Ind.
VanAtta, Ernest ----------Hardin
Vassar, Lela -------------Hardin
VanDorn, Opal ------------Wood
VanDorn, Ruth ------------Wood
Winegardner, Arthur ------Allen
Windle, Joseph ----------Putnam
Wade, V. D.------------Richland
West, Eugenia -------Tuscarawas
Willians, Helen -----------Hardin
Wilcox, Mrs. Martha ------Marion
Wikle, Delilah ------Montgomery
Whitmer, Nola -------------Allen
Wilson, Mary V.----------Hardin
Wright, Florence ----Tuscarawas
Wolfe, Alice --------------Hardin
Williams, Elsie -----------Hardin
Woods, Sigrid ------------Hardin
White, Elizabeth -------Jefferson
Williams, Flossie ---------Hardin
Walsh, Helen -------------Scioto
White, Edna, -------------Scioto
White, Clara -------------Scioto
White, Edith -------------Scioto
Wolff, Lillie -----------Richland
Wright, Lucille ------------Allen
Weldy, Burnice -------Van Wert
Weldy, Eunice --------Van Wert
Welsh, Evalyn ------------Hardin
Wright, Edna -------------Allen
Watts, Louise -----------Ashland
Windle, Lillian -----------Scioto
Winegardner, Stanley ------Allen
Webb, Helen ---------Van Wert
Williams, Olwen -------Paulding
Wiswell, Marie ---------Auglaize
Wolfe, Grace -------------Hardin
Washburn, Hazel ------------Pike
Young, Vermont ----------Mercer
Yentzer, Edna ---------Wyandot
Young, Dee --------------Mercer
Yoder, Nelle --------------Wood
Yoakum, Opal -------------Allen
Yentzer, Ethel ---------Wyandot
Young, Elizabeth -------Franklin
*Deceased

ENGINEERING

Abbott, L. Emerson-----Hamilton
Abeel, Theo. E.-------New Jersey
Adler, Frank J. --Franklin, Mass.
Aldrey, J. L.---------Kings, N. Y.
Allcroft, Jas. W.------Essex, N. J.
Allinger, N. J.--------------Allen
Alspaugh, J. W.-------------Allen
Alzona, P. M.---------Philippines
Armstrong, W. P.---Mercer, N. J.
Allen, Herbert ---------Erie, Pa.
Belen, Adele ---------Philippines
Baines, Percy ----Fairfield, Conn.
Barney, Ernest --Colombia, S. A.
Barnum, Lester--Berkshire, Mass.

Bell, W. E.----------------Perry
Bauer, Carl --------Montgomery
Beck, A. D.---------Cayuga, N. Y.
Beeney, Herbert -----------Knox
Bero, Geo. ---------------Seneca
Berry, Martin ------------Union
Berry, Russell --Washington, Pa.
Bielenberg, Max----Wayne, Mich.
Bird, E. L.---------------Hardin
Blaiklock, Thos. -----Essex, N. J.
Bolquerin, Ralph ----Philippines
Bolster, Geo. L.-------------Mass.
Booker, Ralph ---Franklin, Mass.
Boulton, Frank ------Erie, N. Y.
Braglio, Chas. ----Armstrong, Pa.
Bricker, Richard ---------Wayne
Brockerman, Herman ------Logan
Brown, H. A.--Cattaraugus, N. Y.
Brown, J. B.-------Steuben, N. Y.
Brown. L. C.-----------Sandusky
Brownell, F. B.----Suffolk, N. Y.
Buckwalter, R E.-------Mahoning
Buell, H H.---------Washington
Burnham, A. L.--------Ashtabula
Barnes, Jean C.-----------Hardin
Breckinridge, R. E.---------Allen
Cotner, Walter -------------Allen
Caffee, H. G.-------------Hardin
Calahan, Foster ----------Hardin
Carr, Geo. W.-------Sussex, N. J.
Cato, W. C.----Chautauqua, N. Y.
Chambers, D. F.---------Hancock
Chaney, H. D.--------Columbiana
Clapper, R. M.--------Muskingum
Cone, Jas. H.-----Middlesex, Conn.
Clevenger, A. L. -----------Allen
Clymer, Gale ------------Hancock
Coffman, O. G.-------------Logan
Conant, I. J.-----Berkshire, Mass.
Conley, John ---------Erie, N. Y.
Cookingham, M. D.---------Allen
Coopersmith, W. D.---------Allen
Crooks, Harlow ----------Portage
Cullings, Geo. -------------------------Schenectady, N. Y.
Cook, Fred W.-------Aiken, S. C.
Capell, Paul R.-----------Hardin
Carpenter, Dale -----------Fulton

Carver, E. L.--------------Lucas
Darrah, Hale D.----------Portage
Diemer, J. C.-----------Cuyahoga
Davis, J. A.---------------Miami
Decker, F. J.------Monroe, N. Y.
Delahoy, D. L.---------New York
DeHaven, P. C.----Lancaster, Pa.
Delzell, F. M.----Columbiana, Pa.
Demeroto, A. F.----Nassau, N. Y.
Drury, H. S., Jr.--Armstrong, Pa.
Durnell, B. P.------------Fayette
Day, Marion W.-----Orange, N. Y.
Deitrick, R. W.---------Cuyahoga
Dixon, Fred -------Luzerne, Pa.
Eames, D. C.---------Denver, Col.
Edwards, C. L.--Lackawanna, Pa.
Ellaby, C. H.--------Jefferson, Ky.
Elliott, Clayton E.--Jefferson, Ala.
Ellis, S. W.------------Mahoning
Eshbaugh, W. P.----McKean, Pa.
Edwards, Wayne E.-----------------------Lackawanna, Pa.
Foeller, S. M.------Wayne, Mich.
Forney, Dale ------------Hardin
Fox, Ethan --------------Ottawa
Francis, F. O.---------Erie, N. Y.
Frederick, A. E.----------------------------Westmoreland, Pa.
Furst, H. T.---------------Stark
Frick, Darrell C.------Beaver, Pa.
Galbreath, F. H.---------Clemont
Gallapoo, Oren ----------Paulding
Garwood, I. Nels--------Cuyahoga
Gerhart, C. C.-----------Crawford
Gilbride, R. O.--Lackawanna, Pa.
Gottleib, Manious -----York, Pa.
Gugin, N. J.-------------Summit
Grunau, Geo. ----------Cuyahoga
Graybill, E. D.--------------Stark
Gledhill, Wayne -------Crawford
Gomulka, John, Montgomery, N. Y.
Gorsuch, R. G.------Monroe, N. Y.
Haley, Franklyn ----------Seneca
Harmon, W. W.------Kings, N. Y.
Harmon, J. H.------------Hardin
Harp, C. M.-----------Forest, Pa.
Harris, Wm. P.---------------Erie
Hauser, Chas. A.----Essex, N. J.

Heal, Harold ------------Lorain
Hedges, J. S.-----St. Joseph, Mich.
Hillery, Archie ---------Hamilton
Horst, C. M.--------Wayne, Mich.
Hassler, Willard -----------Logan
Hover, E. W.-----------Mahoning
Huden, I. Chas. ----Suffolk, N. Y.
Houff, J. A. -------------Lorain
Highland, R. H.--Harrison, W. Va.
Harkness, F. B.-----Charlotte, Vt.
Hipsher, N. F.-----------Marion
Holman, Carl ------------Hardin
Hazelton, S. D.-----Ingham, Mich.
Jackson, H. A.-------Kent, Mich.
Jefferies, W. R.-----------Monroe
Johns, E. V.-------------Summit
Johnson, J. R.-----Osceola, Mich.
Johnson, Phillip--Middlesex, Conn.
Jones, Albert R.-------Muskingum
Jones, Arley -------------Mercer
Keenan, G. W.------Monroe, N. Y.
Kelley, W. H.-------Custar, Mont.
Kierman, J. H.------------Greene
Kenney, Paul W.---------Licking
Knapp, I. W.-----------Ashtabula
Knupp, R. W.---------------Stark
Kohlmeier, B. P.-------------------------Cattaraugus, N. Y.
Konopky, Irving --Fairfield, Conn.
Kraner, L. F.--------------Allen
Kukde, Shahu P.------------India
Kellmer, H. B.----------Cuyahoga
Lanning, A. J.------Mercer, N. J.
Labetan, Samuel -------York, Pa.
Leach, C. H.----------Erie, N. Y.
Leathers, L. D.----------Auglaize
LeVine, A. ---------Orange, N. Y.
Lewandowski, J. J.-----------------------New Haven, Conn.
Lewis, A. W.-------Ingham, Mich.
Lewis, Thomas J.--------Harrison
Lobo, Orion ---------Brazil, S. A.
Lord, Monroe-------Monroe, N. Y.
Lorini, Hector-------Bolivia, S. A.
Lowry, Franklin --------Wyandot
Lundberg, A. T.--Berkshire, Mass.
Lundberg, Morris Berkshire, Mass.
Leonard, E. N.-----Cabell, W. Va.

Love, William ----------Guernsey
McConnell, G. E.------Tuscarawas
Macys, Vincent ---------Cuyahoga
Maridon, James --Armstrong, Pa.
Martin, D. E.----------------------------Northumberland, Pa.
Martiny, H. J.---Cattaraugus, N. Y.
Matthisa, C. N.-------Clinton, Pa.
Meredith, H. J.------------Warren
Miller, H. C.--------------Logan
Miller, W. J.---------Nelson, Ky.
Miser, D. J.-------------Jefferson
Moore, Norman ------Indiana, Pa.
Moore, Stanley ------Luzerne, Pa.
Morgan, John R.----Wayne, Mich.
Morrison, Harrold -Delaware, Ind.
Morton, E. L.-----------Crawford
Mouery, H. D.----------Trumbull
Myrberg, O. E.-----Mecosta, Mich.
Morgan, C. R.--------------Lucas
Miller, E. C.-------------Seneca
Malcove, N. L.------------Canada
Mendoza, H. ---------Philippines
Neff, Robert ------------Auglaize
Nelson, David A.-----------------------------Middlesex, Mass.
Olmstead, W. L.-----Wayne, Mich.
Nesbet, C. K.---------Barry, Mich.
Olivera, J. B.---------Brazil, S. A.
Nincehelser, H. S.-----Champaign
Ours, Reed --------------Marion
Palmer, H. K.-----Chemung, N. Y.
Parker, C. W.------Allegheny, Pa.
Pelaez, Abel -----Colombia, S. A.
Pettit, Max --------------Medina
Pfifferling, J. F.--------York, Pa.
Phillips, H. D.-----Alexandria, Va.
Pixler, John -------------Holmes
Poling, F. A.-------------Hardin
Ponsetto, J. L.---------------------------Westmoreland, Pa.
Poole, Russel -----------Williams
Powell, F. G.-----------Ashtabula
Prichard, L. W.----------Portage
Prudent, Henry ---------Clermont
Pugh, M. G.---------------Miami
Pugh, P. R.---------------Logan
Plympton, R. E.--Franklin, Mass.

Pennington, Josiah-Shawano, Wis.
Ritchie, W. C.-----Armstrong, Pa.
Robertson, B. L.-----Wayne, Mich.
Robinson, J. T.------Jefferson, Pa.
Robas, Jose ----------Porto Rico
Rodenberger, F. A.--------Hardin
Rodgers, Fred ------Cambria, Pa.
Roeder, Dale --------------Allen
Roth, W.----------------Portage
Rothrock, G. B.-----------Hardin
Rucknan, James ----------Marion
Runel, D. E.--------------Darke
Russel, L. G.------------Paulding
Ryman, Wilson -----Luzerne, Pa.
Rogers, D. K.----------Blair, Pa.
Ring, J. M.----------------Allen
Reading, W. J.--------Erie, N. Y.
Raisnyder, Frank ------Crawford
Rockhill, Russel ----Putnam, Ill.
Schamehorn, P. ------Allen, Ind.
Schaunn, W. H.-----------Wayne
Schmuck, Roland --Venango, Pa.
Schutze, C. H. ---Fairfield, Conn.
Senior, A. H. ----Venezuela, S. A.
Shaffer, R. C.-------Cambria, Pa.
Shanley, L. O.------------Miami
Shultz, R. E.--------------Fulton
Sickles, L. G.--------Brown, Wis.
Siefert, M. J.--------------Clark
Silverman, Max -----------Kings
Slater, Galen -------------Wayne
Smith, Donald -------------Stark
Smith, Paul ------Armstrong, Pa.
Snedden, T. R.------Lawrence, Pa.
Snyder, T. M.--------------Shelby
Sprankel, G. K.--------------Erie
Stalder, Harold ----------Hardin
Stark, Edgar ---------Erie, N. Y.
Starner, Edwin -----------Holmes
Steele, George H.--------Trumbull
Stormer, Paul ----Venenango, Pa.
Sulivan, D. F.---Hampden, Mass.
Swindler, B. W.----------Paulding
Saramento, J. N.-----Brazil, S. A.
Stinebaugh, M. E.--------Auglaize
Slygh, L. L.-----------------Allen
Schernerhorn, J. R.-Winona, Minn.
Shappell, C. N.--------------Allen
Schaefer, R. E.-----------Belmont
Schaeffer, G. D.-------------Allen
Sonday, E.------------- Crawford
Talbot, P. -----------Washington
Thobaden, W. H.--------Cuyahoga
Thompson, W. L.--------Erie, Pa.
Thornburgh, Fred ----Henry, Ind.
Turner, R. H.------Ingham, Mich.
Thompson, Paul ----------Hardin
Upp, Arthur ------------Williams
Vaughn, M. E.------------------------------Worcester, Mass.
Vincent, H. L.-------Pierce, Wash.
Wander, R. W.--------------Knox
Watson, A. -----Washington, Pa.
Welch, James --Livingston, N. Y.
Wenzel, E. G.---------Peru, S. A.
Whipkey, C. E.------Sumerset, Pa.
Wilcox, Grant ------McLean, Ill.
Williams, T. J. Jr.------Lake, Ill.
Witchey, Ralph ----Clearfield, Pa.
Wolf, David ------------Ottawa
Witzler, H. F.--------------Wood
Wright, H. D.--------------Allen
Woolever, A. E.--------------Lake
Yochum, Carl ------------Brown
Yznaga, J. A. --------------Cuba
Zimmerman, Walter -----------------------------Jefferson, Pa.

LAW

Bendure, D. R.----------Guernsey
Blank, Carl ---------------Allen
Bow, Frank ---------------Stark
Brown, Kenneth ---------Franklin
Burkett, J. F.-----------Hancock
Collier, James ---------Lawrence
Cox, Albert N.------------Hardin
Cross, Ward C.---------Ashtabula
Comforti, N. J.-------Fayette, Pa.
Cunningham, Isabel ------Hardin
Dolfi, Q. E.------------Jefferson
Dalton, N. M.--------Montgomery

Dumbauld, Hazel ---------Hardin
Evans, Merl ---------Beaver, Pa.
Fitts, Robert ------------Marion
Fillman, Walter -----------Lucas
Frick, H. W.-------------Seneca
Frey, Dorothy ----------Clermont
Granfield, J. J.---Hampden, Mass.
Greybill, Clifton -----------Stark
Guilinger, B. E.---------Mahoning
Gooch, C. D.----------Henry, Mo.
Johnson, W. L.---------Van Wert
Johnson, Eunah --------Van Wert
Jones, L. E.-------------Putnam
Kalbfleisch, G. E.--------Richland
Kane, David -----Fairfield, Conn.
Kelley, W. J. B.-----Venango, Pa.
King, Wayne B.------------Stark
Kemble, M. H.-------------Darke
Lewis, Robert S.---------Jefferson
Leech, P. N.-----------Coshocton
Luna, E. ------------Philippines
Lindhorst, Lester ------Cuyahoga
McCorkhill, C. G.----------Carroll
McInturff, Paul ------Champaign
Mikesell, Homer ----------Preble
Moke, J. J.----------------Allen
Monahan, George ---------Hardin
Montville, Hurst ----------Hardin
Mosebacher, Matt J.-----Crawford
Myers, W. G.-------------Putnam
McGinnis, Herbert ---------Allen
Miller, H. F. -------------Lucas

Melvin, W. E. ---------Lawrence
Nichols, Robert ---------Richland
Nichols, Russel ---------Richland
Patterson, Charles A.------Hardin
Patton, C. M.-------------Marion
Randall, C. A.-----------Erie, Pa.
Robinson, D. C.---------Cuyahoga
Ridenour, J. E.--------------Allen
Scheverrol, J. L.---------Portgage
Schlegel, P. L.-----------Summit
Schields, Fred L.--------Clermont
Shinn, William ---------Williams
Siever, John ---------------Allen
Silk, John A. --------------Stark
Soglovitz, Paul ---------Cuyahoga
Spellman, V. W.----------Hardin
Stansbury, Rodney ---------Allen
Stein, Harry ----------Mahoning
Stewart, R. L.--------Washington
Stroup, A. M.-------------Hardin
Sugranes, R. G.--------Porto Rico
Smith, R. L.------------Mahoning
Thompson, P. E.----------Hardin
Tudor, A. D.---------------Allen
Turner, W. L.-----------Belmont
Turner, W. F.--------------Stark
Weimer, Ralph -----------Medina
Wiedemann, Frank --------Marion
Williams, E. L.---------Mahoning
Wisman, A. W.----------Crawford
Wright, E. M.--Bonneville, Idaho
Weber, Mrs. Ada-----------Hardin

PHARMACY

Attenson, P. I.---------Cuyahoga
Adelstein, Nathan -------Cuyahoga
Albanese, A. J.---------Cuyahoga
Albin, C. D.-------------Paulding
Berman, J. G.----------Cuyahoga
Best, W. R. ----------Washington
Brickman, H. B.---------Defiance
Brody, Morris ----------Cuyahoga
Brown, F. B.---------Warren, Pa.
Brown, Jacob ----------Cuyahoga
Brydon, J. R.-----------Cuyahoga
Cunningham, J. T.---------Hardin
Daum, F. P.------------Crawford
Dishong, I. I.--------------Wood

Evans, W. C. ------Greenup, Ky.
Fish, K. A. ----------------Wood
Friedman, R. I.---------Cuyahoga
Fryer, P. N.---------Kings, N. Y.
Gamble, Vera --------Beaver, Pa.
Greenwald, John ---------Summit
Hertzer, F. W.------------Seneca
Holland, A. N.--------Columbiana
Hutson, R. R.---------Allen, Ind.
Harr, E. A. Jr. -------Champaign
Hutton, Jack ----------Belle, Ky.
Jordan, Robert ---------Cuyahoga
Kerchmer, Clifford --------Seneca
Kortier, H. K.---------------Wood

Kring, V. F.	Allen, Ind.
Kantor, E.	Cuyahoga
Lasher, L. L.	Cuyahoga
Livsey, Algron	Stark
Lipicky, Nichols	Cuyahoga
Miller, Burdette	Marion
Molitoris, Nicholas	Cuyahoga
Mathews, E. C.	Cuyahoga
Martin, C. E.	Coshocton
Naneche, Rene	Armstrong, Pa.
Perlich, P. H.	Cuyahoga
Poulston, H. D.	Summit
Reed, Robert E.	Wayne
Renlinger, Walter	Putnam
Richardson, Howard	Allen
Robinson, Nathan	Cuyahoga
Robinson, Samuel	Cuyahoga
Rocen, S.	Cuyahoga
Sams, N. W.	Hardin
Shirley, F. M.	Paulding
Shoemaker, R. J.	Hancock
Stabler, Charles	Paulding
Tanrus, K.	Cook, Ill.
Tannehill, A. J.	Marrow
Thompson, F. L.	Putnam
Thornton, D. G.	Summit
Timblin, W. C.	Harrison
Turner, C. E.	Columbiana
Van Stronder, D. L.	Hardin
Wagner, D. M.	Summit
Welday, H. S.	Jefferson
Wolfe, H. A.	Seneca
Wolfley, P. F.	Hardin
Wolstein, S. M.	Cuyahoga
Worm, Theodore	Cuyahoga
Wood, F. W.	Ashtabula
Winters, Erma	Allen, Ind.

PRE-MEDIC

Burger, W. F.	Erie
Conner, E. M.	Hardin
Dughman, John	Logan
Durliat, P. J.	Wood
Ewing, E. P.	Hancock
Geis, R. M.	
Goldstein, David	Cuyahoga
Hardgrove, G. L.	Wayne
Jackson, Mildred	Allen
Kidd, Harry L.	Franklin
Kaplan, H.	Allen
Moyer, Myron	Auglaize
Poling, Eric	Montgomery
Roof, Clyde	Clark
Selen, S.	Allegheny, Pa.
Shank, Paul	Hardin
Shontz, R. A.	Northumberland, Pa.
Stocker, Edna	Auglaize
Sidener, Helen	Allen
Warninsky, Frank	Summit
Warren, R. A.	Ontario, N. Y.
Wyre, W. W.	Allen

COMMERCE

Ayres, C. L.	Belmont
Andrews, L. J.	Mercer
Alcroft, Mrs. J. W.	Hardin
Banning, Edwin	Hardin
Burns, L. T.	Montgomery
Boyer, Huber	Shelby
Bodell, Alma	Hardin
Bowers, Paul	Hardin
Burnette, Maxine	Hardin
Brown, Mrs. Richard	Berkshire, Mass.
Cole, C. W.	Erie
Corfman, Ray	Hardin
DeWeese, H. D.	Miami
Erwin, J. R.	Allegheny
Erwin, W. W.	
Eckenrode, Lena	Hardin
Fisher, Robert	Stark
Francis, Geraldine	Crawford
Gwinner, Russel	Crawford
Grubbs, Louis	Hardin
Herman, H. J.	Williams
Hannett, R. E.	Erie, N. Y.
Hower, Fred	Richland
Herd, Adner	Delaware
Harrod, Ola	Allen
Harbourt, Ella	Jefferson
Harrod, Victoria	Allen

Jones, Ben -------------Hardin
Johnson, Ruth --Muscatine, Iowa
Jedkins, Lela -----------Hardin
Kelley, W. B.-------Allegheny, Pa.
Krepts, C. E.---------Fayette, Pa.
Klingeld Constance ------Hardin
Lavely, Helen ----------Wyandot
Ludwig, Day ------------Hardin
Moore, Isaac -------------Wood
McElroy, Harry ----------Hardin
Rodabaugh, M. T.---------Hardin
Ross, C. W.-----------Forest, Pa.
Rogers, J. C.---------------Wood
Reedy, Hildred ----------Hardin
Russell, Georgia ---------Hardin
Rexin, Augusta ----------Hardin
Smith, L. R.-----------Crawford
Stecker, W. A.----------Richland
Stetler, Paul -------------Allen
Stevens, Charles ---------Summit
Shaffer, Alma ------Cambria, Pa.
Shelley, Helen ----------Hardin
Stryker, Margaret-Somerset, N. J.
Sterritt, Beldren --------Morrow
Tuason, B. C.---------Philippines
Thomas, R. W.------Clinton, Utah
Vershey, Opal ----------Hardin
White, B. H.---------------Allen
Welty, Agnes -----------Hardin
Wilcox, Mildred --Franklin, N. Y.

PRE-COMMERCE

Denton, W. H.---------New York
Ellis, Thomas ---------Mahoning
Kenwood, James ---Wayne, Mich.
Seely, W. N.-Northumberland, Pa.
Steiner, W. W.------------Stark

MUSIC

Allen, Alice -------------Hardin
Bell, William --------------Perry
Berger, Lewis -----------Hardin
Brame, Clona -----------Hardin
Buehler, Edna ----------Hardin
Burean, Edna -----------Hardin
Baransy, Florine ---------Hardin
Brewer, Helen --Custar, S. Dakota
Bowers, Opal ------------------
Blatt, Alice -------------Ottawa
Blatt, Carrie -------------Ottawa
Barnes, Vera I.-----------Hardin
Bailey, Winona --------Auglaize
Barrick, Olive -------------Knox
Cobb, D. F.--------------Summit
Cone, J. H.------Middlesex, Conn.
Clark, Lavon ------------Hardin
Clark, Leola ------------Hardin
Cotterell, Erma -------York, Pa.
Cox, Dorothy ------------Hardin
Cox, Viola ---------------Hardin
Cretois, Martha ---------Hardin
Campbell, Mildred -------Hardin
Campbell, Mary ---------Hardin
Church, Ruth -----------Hardin
Conner, Edith ----------Hardin
Cook, Mildred -----------Hardin
Cotner, Mary -----------Hardin
Cady, Anna ---------Washington
Cole, Mildred -----------Hardin
Cooney, Helen -----------Hardin
Devol, O. E.---------------Perry
Diener, I. C.------------Cuyahoga
Davis, Theodore ---------Hardin
Davis, June -------------Hardin
Davison, Ada ------------Hardin
Dally, Audrey ------------Hardin
Detrick, Marjorie --------Hardin
Bailey, Ruth -------------Hardin
Elder, Thora -------------Hardin
Erwik, W. M.-------------Hardin
Elbin, Mrs. G. H.---------Hardin
Earl, Virginai ------------Hardin
Ernsberger, Mrs. Helen ---Hardin
Eibling, Cora -------------Hardin
Friedley, Dorothy --------Hardin
Fry, Margaret ------------Hardin
Fast, Annette ----------Paulding
Garner, Edison ---------Jefferson
Gary, H. J.------------Ashtabula
Gomulka, John ----------------
----------Montgomery, N. Y.
Granfield, J. J.--Hampden, Mass.
Graybill, Clifton ----------Stark
Greenwald, J. A. Jr.------Summit
Grenau, Raymond --------Hardin

Garmon, Lavonne --------Hardin
Gigandet, Mary ----------Shelby
Garwood, Murwin ------Hancock
Gallant, Ruth -----------Hardin
Gamble, Frances ------Van Wert
George, Ruby -----------Hardin
Gesaman, Alice ----------Hardin
Gilford, Alice -----------Hardin
Huston, C. V.------------Hardin
Hoel, Gladys ------------Mercer
Hover, Lois ------------Hardin
Huffman, Janet ----------Hardin
Hilty, Margaret ---------Hardin
Hulme, Gladys -----------Miami
Harbaugh, Clyde ---------Miami
Hershner, Faye --------Crawford
Johnston, Rowena --------Hardin
Judkins, Lois Jean-------Hardin
Kille, L. A.---------Columbiana
Klingler, Constance ------Hardin
Kohn, Pauline ---------Paulding
Kinnear, Ethel ----------Hardin
Klingler, Donna ---------Hardin
Klinger, Ruby ---------Paulding
Long, Russell -----------Hardin
Lonas, Dora -------------Stark
Loman, Mildred ---------Hardin
Landon, Lee Erma--------Hardin
Leslie, Verda -----------Hardin
Lowe, Ruth -------------Hardin
Litzenberg, Ayliffe --------Knox
Miller, Herman L.---------Marion
Moreland, L. S.-Washington, D. C.
Miller, Hubert ----------Hardin
McGinnis, Mildred -------Hardin
McWilliams, Wava -------Hardin
Matteson, Ellen --------Wyandot
Meister, Ethel ----------Belmont
McElroy, Cleola ---------Hardin
McElroy, Mozelle --------Hardin
Main, Mildred ----------Hardin
Main, Pauline ----------Hardin
Miller, Delight ----------Hardin
Moorman, Dorothy -------Hardin
McCurdy, Flora ---------Hardin
McLaughlin, Mary -------Hardin
McElroy, Mrs. Lloyd------Hardin
Mohler, Kathleen --------Hardin
Mohler, Rosemary -------Hardin
McGinnis, Evelyn --------Hardin
Mazzula, Maude Ogden----Hardin
Nickles, Juanieta -----Tuscarawas
Plikerd, Letha ------------Allan
Poe, Leah --------------Hardin
Pontius, Lulu ------------Wood
Phillips, Louella --------Hardin
Poling, Ella -------------Union
Reyes, J. L.----------Philippines
Renynolds, Chas. H.------------
------------Washington, Pa.
Rodabaugh, Myron--------Hardin
Ruckman, James --------Marion
Reaney, Wm.------St. Clair, Mich.
Rumbaugh, Beatrice ------Hardin
Raabe, Mary Smith-------Hardin
Roth, A. L.--------------Hardin
Rose, Hope -------------Hardin
Silk, John A.--------------Stark
Smith, Ben V.------------Hardin
Shanks, Royal -----------Hardin
Scott, Owen ------------Hardin
Stemen, Gladys -------Van Wert
Stemen, Reba --------Van Wert
Sterritt, Voldren --------Morrow
Stryker, Margaret--Somerset, N. J.
Smull, Miriam May ------Hardin
Scott, Izora -------------Hardin
Slack, Helen ------------Hardin
Sleesman, Carolyn -------Hardin
Speer, Mildred ----------Hardin
Smith, Frankie ----------Hardin
Sheley, Mary Ellen----Van Wert
Stauffer, Helen ----------Hardin
Stamm, Opal -------------Knox
Turner, Betty Jane-------Hardin
Welday, H. S. ---------Jefferson
Welker, R. L.-------------Hardin
Warner, Richard --------Hardin
Whitworth, Eleanor ------Hardin
Wood, Grace Anna ------Hardin
Whitworth, Dorothy ------Hardin
Wilson, Ruth -----------Hardin
Walker, Mrs. G. C.--------Hardin
Wilcox, Mildred --Franklin, N. Y.
Williams, Oliver -------Paulding
Warren, Millicent --------Hardin

Witham, Mary ----------Hardin
Witham, Carrie ---------Hardin
Young, Lynn ------------Hardin
Young, Mary -----------Hardin

EXPRESSION

Branam, Reta ----------Paulding
Case, Charles -----------Licking
Campbell, Ada ----------Hardin
Davison, Ada -----------Hardin
Dehus, Delores ------------Ross
Davenport, Gladys -------Hardin
Dickson, Grace ----------Hardin
Eibling, Elbert ----------Hardin
Evans, Viola ---------Van Wert
Gallapoo, Ralph ---------Hardin
Gallant, Ruth -----------Hardin
Hoel, Charles ----------Paulding
Hord, Milton ------------Marion
Harrold, Raymond ------------- ----------Westmoreland, Pa.
Hanna, Essie ------------Logan
Jones, A. R.---------Muskingum
Kirk, Harriet ------------Stark
Lewis, Robert S.---------Jefferson
Lanphear, Park B.--------Marion
Marz, Clarence -----------Stark
Miller, Olen C.--Tishoningo, Miss.
Marshall, Glenna --------Hardin
Matteson, Ellen --------Wyandot
Moorman, Dorothy -------Hardin
Mustard, Ruth ----------Hardin
McCurdy, Trola ----------Hardin
Marshall, Opal ----------Hardin
Murphy, Faye -------------Pike
Noaker, H. M.------------Stark
Northup, Verona --------Hardin
Nickles, Juanieta ----Tuscarawas
Page, Warder --------Champaign
Poe, Leah --------------Hardin
Povenmire, Katherine ----Hardin
Rumbaugh, Margaret -----Hardin
Taylor, Charles B.-----Fayette, Pa.
Trunko, Eugene ---------Summit
Thompson, Wayne C.-----Mahoning
Thomas, Ruth N.---------Hardin
Wasmuth, A. J.------Montgomery
Webb, Loeane -----------Hardin
Wikle, Elizabeth ----Montgomery

SPECIAL

Alspaugh, Mrs. Stella ------Allen
Bingham, Milton -------------- ----------Schenestady, N. Y.
Bow, Homer C.-------------Stark
Caffee, Mrs. Ilma---------Richland
Frase, Mrs. Achsa---------Hardin
Galvez, A. G.--------------Cuba
Harrold, Raymond ------------- ----------Westmoreland, Pa.
Liechti, Walter --Washington, Pa.
Lanphear, Park B.---------Marion
Manning, J. F.------------Hardin
Miller, John F.-----Bergen, N. J.
Perkinson, Mrs. W. D.-----Hardin
Pereirz, E. G.--------Brazil, S. A.
Reaney, W. A.-----St. Clair, Mich.
Spilka, A. C.----------Cuyahoga
Tabor, Geneva ----------Hardin
Warren, C. T.-------Mobile, Ala.

AGRICULTURE

Conklin, Franklin ------Delaware
Hill, Paul ----------------Wood
Maxwell, Paul -----------Miami
Owens, J. Glen------------Allen
Ramseyer, Richard --Montgomery
Warshay, Isaac --------Cuyahoga
Waterman, Charles ------Hancock

RELIGION

Meyer, Howard M.---------Stark
Nolan, J. W. -------------Miami

PREPARATORY

Ahlin, Sigurd ------Kings, N. Y.
Ascarrunz, Geo. A.--Bolivia, S. A.
Banks, R. L.-------------Hardin
Barber, J. W.------------Logan
Bausmith, W. E.--------Hamilton
Blakely, A. S.-------Queens, N. Y.
Bowers, J. R.------------------
Brown, J. F.---------------Allen
Bruner, Samuel ---------Hardin
Barnes, Vera L.-----------Hardin
Balsinger, Grace -----------Pike
Caldwell, R. F.------Cambria, Pa.
Carnett, John ------Letcher, Ky.
Carpenter, Howard -------Shelby
Cloore, Paul ---------------Allen
Conaway, C. H.-----------Morrow
Cooper, J. S.-----------Mahoning
Crawford, R. C.-------------Stark
Chaffee, H. D.----Hartford, Conn.
Clutter, Dwight -----------Allen
Clark, Beaulah -----------Hardin
Deisher, F. C.---------Perry, Ind.
Donnan, T. D.-----------Richland
Dunajtsik, K. D.---------Richland
Elsass, Christiana ---------Shelby
Englehart, Ellwood --Garrett, Md.
Englehart, Howard --Garrett, Md.
Evans, J. B.-------------Licking
Farnsworth, H. D.-------Trumbull
Fryer, Marlin -----------Hardin
Gearhart, J. F.-----------------
German, W. F.----Monroe, N. Y.
Geyer, Cleo G.------------Putnam
Groves, E. R.---------New Jersey
Guenot, A. B-------Ontario, Can.
Geyer, Chas. --------------Allen
Gaines, Charlotte ---------Hardin
George, Ruby ------------Hardin
Griffey, Merle ---------Ashtabula
Halter, G. L.---------------Allen
Hammond, W. L.-----Mobile, Ala.
Harris, Charles ----Wayne, Mich.
Hughes, Marion ---Baltimore, Md.
Hord, Milton ------------Marion
Higginson, M. B.-------Mahoning
Jones, Roy R.------------------
Jameson, Walter ---------Hardin
Kennedy, Eugene ------Richland
Kile, Grant ------------Summit
Krug, D. W.----------------Stark
Kunkel, Jos. ----------Cuyahoga
Kuszmaul, E. C.----------Summit
Knox, W. C.----Livingston, N. Y.
Kingsbury, W. S.-----------Logan
Kirk, Harriet -------------Stark
Liggett, Clifton -----------Union
Litzenberg, Ayliffe ---------Knox
Lee, L. T.-----------------China
Lindersmith, Paul ------Williams
Lutz, E. W.--------------Hardin
Laurens, J. P.------------Mexico
Leslie, Verda -------------Hardin
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Marcayda, Jose ------------Cuba
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Miller, Stanley -------------Allen
Muto, Anthony --Plymouth, Mass.
McPhereon, Edna ----------Allen
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Noel, Wilson ---------------Stark
Osterhout, W. L.--Franklin, Mass.
Oswald, Frederick--Randolph, Ind.
Perkinson, W. D.----------Scioto
Pine, H. B.-------------Cuyahoga
Pfau, Virgil --------------Henry
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Poling, Edna -------------Hardin
Poling, Ella ---------------Union
Pender, Gladys ---------Cook, Ill.
Patterson, Vera -----------Hardin
Rearic, N. F.------Lawrence, Pa.
Roffe, Kneeland---------New York
Rosseti, John -----Allegheny, Pa.
Reese, L. I.----------------Stark
Rager, Elizabeth ---------Hardin
Schaeublin, L. F.-----------Allen
Schwartz, L. H.----Marathon, Wis.
Shepherd, L. C.------------Allen
Sheldon, Robert ---------Summit
Shires, Luke -----Lycoming, Pa.
Skinner, R. P.--Chautauqua, N. Y.

Smith, Russell H.------Crawford
Snider, Sidney --------Cuyahoga
Spotts, M. F.-------Pinellas, Fla.
Stearns, C. L.-----------Morrow
Stich, Francis ---------Hamilton
Strejan, J. Robert------Mahoning
Sukup, I. A.-----------Crawford
Strutt, Elgie F.------------Stark
Slusser, Harriet --------Hancock
Thomas, Edw. B.-----------Allen
Tramwell, C. E.--------Polk, Fla.
Treece, Elmer ----------Hancock
Thompson, W. C.------Mahoning
Tritschler, Leo C.----Beaver, Pa.
Wasmuth, A. J.------Montgomery
Wilkes, C. E. ------Mercer, N. J.
Wingardner, Paul ---------Allen
Wingard, Jay F.-----Indiana, Pa.
Wolfe, C. L.--------------Perry
Wycoff, Ray ------Allegheny, Pa.
Welday, C. E.----------Cuyahoga
Whiteside, Franklin ------Union
Wedebrook, C. W.--------Scioto
York, Melvin ------------Allen
Young, W. --------Ontario, Can.
Zavaleta, Manuel--Argentine, S. A.
Zoll, Wilbur -------------Clark

FEDERAL STUDENTS

Allinger, Neil J.----------------(Engineering) ---------------Allen
Alspaugh, J. W. ---------------(Engineering) ---------------Allen
Baldwin, E. H.----------------(Pharmacy) -----------------Allen
Barnes, Jean C.---------------(Engineering) -------------Hardin
Barney, E. E.-----------------(Engineering) ------Colombia, S. A.
Bow, Homer -----------------(Special) -------------------Stark
Brown, Kenneth ---------------(Law) ------------------Franklin
Brown, J. F.------------------(Special) -------------------Allen
Burns, Granville ---------------(Education) -------------Belmont
Caffee, H. G.------------------(Engineering) ------------Richland
Capell, Paul R.----------------(Engineering) -------------Hardin
Carpenter, Dale ---------------(Engineering) -------------Fulton
Carver, Earl L.----------------(Engineering) --------------Lucas
Clevenger, Alfred L.------------(Engineering) ---------------Allen
Clymer, Gale L.----------------(Engineering) ------------Hancock
Collier, James -----------------(Law) -----------------Lawrence
Conaway, Charles --------------(Special) ----------------Morrow
Cookingham, M. D.-------------(Structural) ----------------Allen
Coppersmith, W. D.------------(Engineering) ---------------Allen
Cussen, Paul -----------------(Education) --------------Paulding
Denius, Harry G.---------------(Education) ----------------Lorain
Farnsworth, H. D.--------------(Engineering) ------------Trumbull
Fillman, Walter ----------------(Law) ---------------------Lucas
Fryer, Phae N.-----------------(Pharmacy) -----------Kings, N. Y.
Fullerton, H. H.----------------(Structural) ----------------Allen
Garner, Edison ----------------(Engineering) ------------Jefferson
German, W. F.-----------------(Special) -----------Monroe, N. Y.
Geyer, Cleo Geo. --------------(Special) ----------------Putnam
Gooch, Charles ----------------(Law) ----------------Henry, Mo.
Grunau, George ---------------(Engineering) -----------Cuyahoga
Guilinger, B. E.----------------(Law) -----------------Mahoning
Gwinner, R. M.----------------(Commerce) -------------Crawford

Halter, Gale	(Engineering)	Allen
Harris, Wm. P.	(Special)	Erie
Horst Clarence	(Engineering)	Wayne
Houff, Joseph	(Special Engineering)	Lorain
Kennedy, Engene	(Engineering)	Richland
Kinery, George	(Law)	Lawrence
Kingsbury, W. S.	(Special)	Logan
Kramer, L. F.	(Engineering)	Allen
Lindersmith, Paul	(Special)	Williams
McConnell, G. D.	(Engineering)	Tuscarawas
McKeever, D. D.	(Special)	Crawford
Meyer, Howard M.	(Religion)	Stark
Miller, Harold F.	(Law)	Lucas
Miller, John F.	(Special)	Bergen, N. J.
Mosbacher, Matt J.	(Law)	Crawford
McElroy, Harry	(Commerce)	Hardin
Nichols, Robert	(Law)	Richland
Nichols, Russel	(Special)	Richland
Oswald, Frederick	(Special)	Randolph, Ind.
Patterson, Charles A.	(Law)	Hardin
Perkinson, W. D.	(Special)	Scioto
Pugh, M. G.	(Engineering)	Miami
Raifsnyder, Frank	(Engineering)	Crawford
Reaney, Wm. A.	(Special)	Hardin
Richardson, Howard	(Pharmacy)	Allen
Ring, Joseph	(Engineering)	Allen
Robinson, B. C.	(Law)	Cuyahoga
Schaeublin, L. F.	(Law)	Pickaway
Sawyer, J. V.	(Special)	Allen
Schlegel, Paul	(Law)	Richland
Snider, S. R.	(Special)	Cuyahoga
Sowash, H. A.	(Law)	Richland
Stich, F. A.	(Engineering)	Hamilton
Stearns, C. L.	(Special)	Morrow
Stinebaugh, Melvin	(Engineering)	Auglaize
Stettler, Paul	(Pre-Commerce)	Allen
Sukup, I. A.	(Special)	Crawford
Swindler, B. W.	(Engineering)	Paulding
Thobaben, W. H.	(Engineering)	Cuyahoga
Thompson, Paul	(Engineering)	Hardin
Thompson, P. E.	(Law)	Hardin
Turner, W. F.	(Law)	Stark
Upp, Arthur	(Engineering)	Williams
Walker, Grover C.	(Liberal Arts)	Auglaize
Welday, Clayton E.	(Special)	Cuyahoga
Wickman, Roy C.	(Commerce)	Seneca
Woolever, A. E.	(Special)	Lake

INDEX

PAGE
Administrative Officers
  and Faculty 8
Admission and Entrance
  General 28
  Education 68
  Engineering 78
  Law 95
  Liberal Arts 34
  Pharmacy 99
Agriculture, School of 135
Aid to Students 26
Assemblies 23
Athletics 20, 145
Band 22
Bar Examinations,
  Preliminary to 95
Biology 46
Board and Room 24
Board of Trustees 6
Bookkeeping 121
Buildings 17
Business Courses 121
Calendar 5
Chemistry 48
Christian Associations 21
Coaching, Athletic 148
Commerce, School of 115
Committees of
  Trustees 7
  Faculty 13
Courses
  Arts-Medicine Combination 42
Description of
  Agriculture 136
  Commerce 116
  Education 68
  Engineering 78
  Expression 140
  Law 92
  Liberal Arts 34
  Music 126
  Pharmacy 98
Physical Education 146
  Preparatory 110
  Religious Education 138

PAGE
Pre-Professional
  Pre-Medical 41
  Pre-Dental 43
  Pre-Commerce 44
  Pre-Agriculture 45
Dropping or Changing 30
Credits, Requests for 16
Degrees (See each Curriculum) 32
Discipline 29
Drafting, Structural 87
Economics 63
Education
  College of 67
  Four-Year Course 70
  Two-Year Course 71
Employment Bureau 76
  Entrance (See Admission)
Engineering
  College of 77
  Civil 79
  Chemical 86
  Electrical 83
  Mechanical 85
English 50
Equipment 17
Examinations 30
Expenses 24
Expression
  School of 139
  Expenses 143
Faculty
  Meetings 32
Fees
  Graduation 26
  Laboratory 25
  Special 25
French 56
German 59
Glee Clubs 22
Grade Marks 31
Graduation, Liberal Arts 40
Greek 51
Gymnasium (See Physical Ed.)
History 52, 73
Horticulture 46

PAGE
Laboratories ---------------- 17
Latin ---------------------- 53
Law, College of-------------- 91
Lectures and Concerts-------- 23
Liberal Arts, College of------ 33
Library -------------------- 19
Literary Societies ---------- 20
Loan Fund ----------------- 26
Majors and Minors----------- 38
Mathematics ---------------- 54
Matriculation -------------- 24
Modern Languages ---------- 56
Museum -------------------- 19
Music, School of--------------125
  Courses in --------------126
  Expenses ----------------133
  Graduation in ------------129
  Public School Music--------131
  Recitals ------------------132
  Scholarships --------------133
  Teachers' Course in--------130
Musical Organizations ----22, 132
Penmanship ----------------123
Philosophy ----------------- 60
Pharmacy, College of -------- 97
Physical Education, School of-145
Physics -------------------- 61
Points, Quality -------------- 32
Political Science ------------ 62
Practice Teaching ----------- 75

PAGE
Preparatory School ----------107
  Admission ----------------109
  Faculty ------------------108
  Graduation Requirements --109
  Outline of Course of Study-111
Prizes --------------------- 27
Psychology -------------64, 72
Publication, Student -------- 22
Refunding ------------------ 26
Registration 29, 34, 68, 78, 95, 99, 109
Regulations, Liberal Arts------ 39
Religious Education --------- 60
Rooms and Board------------ 24
Scholarships --------------- 26
School Year --------------- 15
Sociology ------------------ 65
Spanish -------------------- 58
Special Students ------------ 28
Student Activities ---------- 20
Student Classification ------- 40
Students, List of-------------149
Summer School ------------- 75
Technical Organizations ---23, 88
Tuition -------------------- 24
University,
  Farm -------------------- 20
  History of --------------- 14
  Organization of ---------- 32

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